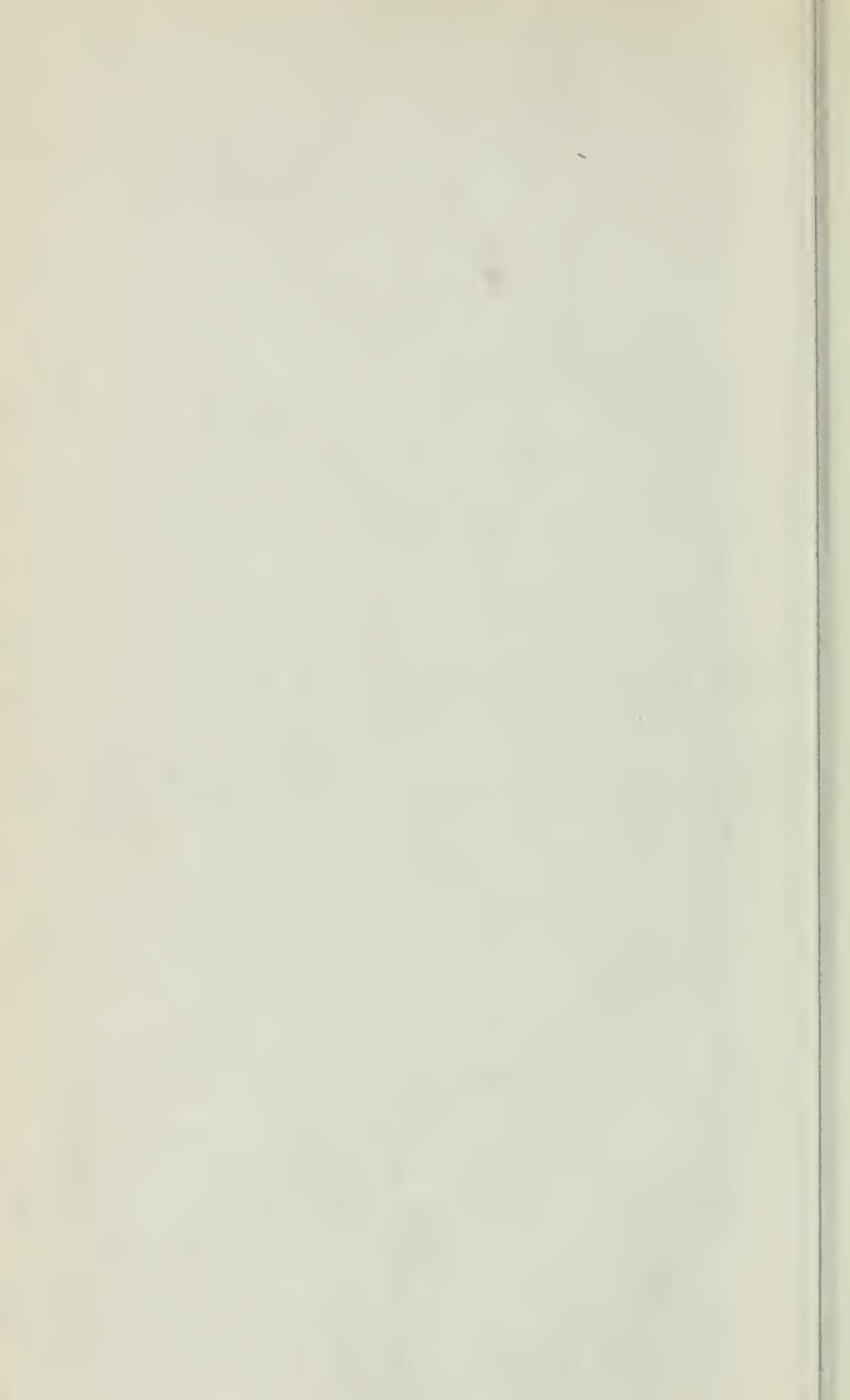


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UNIVERSITY OF ILLINOIS

THE  
**MEDICAL SCHOOL**



1897-98



ANNOUNCEMENT  
OF THE  
MEDICAL SCHOOL  
(BOSTON)  
OF  
HARVARD UNIVERSITY  
FOR  
1897-98



CAMBRIDGE  
Published by the University  
1897

1897.

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## MEDICAL SCHOOL CALENDAR.

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### 1897.

*Sept. 27, Monday.* Examinations for admission.

*Sept. 27, Monday.* Undergraduate examinations begin.

*Sept. 30, Thursday.* **Academic Year begins.** Registration of Students.

*Nov. 1, Monday.* Last day for receiving essays for the William H. Thorndike Prize.

*Nov. 1, Monday.* Last day for receiving dissertations for the Bowdoin Prizes.

*Nov. 25, Thursday.* Thanksgiving Day: a holiday.

*Nov. 30, Tuesday.* Last day for receiving applications for the Cheever and Hayden Scholarships.

RECESS FROM DEC. 23, 1897, TO JAN. 2, 1898, INCLUSIVE.

### 1898.

*Jan. 1, Saturday.* Last day for receiving dissertations for the Boylston Medical Prizes.

*Feb. 3, Thursday.* **Second half-year begins.**

*Feb. 22, Tuesday.* Washington's Birthday: a holiday.

RECESS FROM APRIL 17 TO APRIL 23, INCLUSIVE.

*April 30, Saturday.* Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1898.

*April 30, Saturday.* Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.

*May 28, Saturday.* Last day for receiving applications for Scholarships for 1898-99 (except the Cheever and Hayden Scholarships).

*May 30, Monday.* Memorial Day: a holiday.

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<i>May 31, Tuesday.</i>	Last day for receiving applications of candidates for the degree of M.D. in 1898.
<i>June 1, Wednesday.</i>	Examinations in the School begin.
<i>June 29, Wednesday.</i>	<b>Commencement.</b>
<b>SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT TO SEPTEMBER 29.</b>	
<i>June 30, Thursday.</i>	Examinations for admission.
<i>Sept. 26, Monday.</i>	Examinations for admission.
<i>Sept. 26, Monday.</i>	Undergraduate examinations begin.
<i>Sept. 29, Thursday.</i>	<b>Academic Year begins.</b> Registration of Students.
<i>Nov. 1, Tuesday.</i>	Last day for receiving essays for the William H. Thorndike Prize.
<i>Nov. 1, Tuesday.</i>	Last day for receiving dissertations for the Bowdoin Prizes.
<i>Nov. 24, Thursday.</i>	Thanksgiving Day: a holiday.
<i>Nov. 30, Wednesday.</i>	Last day for receiving applications for the Cheever and Hayden Scholarships.

## THE MEDICAL SCHOOL.

BOSTON.

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OFFICE HOURS OF DEAN, TUESDAY AND FRIDAY, 12.15 TO 1 P.M. ;  
OF SECRETARY, MONDAY AND THURSDAY, 12 TO 1 P.M.

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The course of study for the degree of M.D. in this School is of four years' duration.

Instruction is given by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed throughout the academic year. The year begins on the Thursday following the last Wednesday in September,\* and ends on the last Wednesday in June. There is a recess at Christmas, beginning December 23, and ending January 2; and a spring recess of one week in April.

The course of instruction has been greatly enlarged, and is so arranged as to carry the student progressively and systematically from one subject to another, in natural order.

In the subjects of Anatomy, Physiology, Histology, Chemistry, Bacteriology, and Pathological Anatomy, laboratory-work is substituted for, or added to, the usual lectures, and is required of every student.

In the courses in the departments of Clinical Medicine, Clinical Surgery, and Obstetrics, satisfactory practical clinical work on the part of each student is a requirement for graduation, and opportunity is offered for practical voluntary work in all courses that can be so illustrated with advantage.

At the beginning of the academic year 1892-93 a graded course covering four years was established as the required course of study. The degree of Doctor of Medicine *cum laude* will be given to candidates who have pursued a complete four years' course, and obtained an average of over 75 per cent in the examinations of this course.

A series of written and oral examinations on all the main subjects of medical instruction has been distributed for regular students through their entire course of study. Every candidate for the degree must pass a satisfactory examination in every one of the principal departments of medical instruction, at some time during his period of study.

\* That the time of study shall count as a full term, students of every class must present themselves within the first week of the term and register their names with the Secretary.



## THE MEDICAL SCHOOL.

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### FACULTY.

CHARLES W. ELIOT, LL.D., *President.*  
WILLIAM L. RICHARDSON, M.D., *Dean, and Professor of Obstetrics.*  
JAMES C. WHITE, M.D., *Professor of Dermatology.*  
OLIVER F. WADSWORTH, M.D., *Professor of Ophthalmology.*  
HENRY P. BOWDITCH, M.D., *Professor of Physiology.*  
CLARENCE J. BLAKE, M.D., *Professor of Otology.*  
FRANK W. DRAPER, M.D., *Professor of Legal Medicine.*  
CHARLES B. PORTER, M.D., *Professor of Clinical Surgery.*  
J. ORNE GREEN, M.D., *Clinical Professor of Otology.*  
A. LAWRENCE MASON, M.D., *Associate Professor of Clinical Medicine.*  
J. COLLINS WARREN, M.D., LL.D., *Professor of Surgery.*  
REGINALD H. FITZ, M.D., *Hersey Professor of the Theory and Practice of Physic.*  
THOMAS DWIGHT, M.D., LL.D., *Parkman Professor of Anatomy.*  
JAMES J. PUTNAM, M.D., *Professor of Diseases of the Nervous System.*  
EDWARD S. WOOD, M.D., *Professor of Chemistry.*  
FREDERICK C. SHATTUCK, M.D., *Jackson Professor of Clinical Medicine.*  
EDWARD H. BRADFORD, M.D., *Assistant Professor of Orthopedics.*  
FRANCIS H. DAVENPORT, M.D., *Assistant Professor of Gynaecology.*  
T. M. ROTCH, M.D., *Professor of the Diseases of Children.*  
WILLIAM B. HILLS, M.D., *Associate Professor of Chemistry.*  
WILLIAM F. WHITNEY, M.D., *Curator of the Anatomical Museum.*  
WILLIAM T. COUNCILMAN, M.D., *Shattuck Professor of Pathological Anatomy.*  
CHARLES S. MINOT, S.D., *Professor of Histology and Human Embryology.*  
MAURICE H. RICHARDSON, M.D., *Assistant Professor of Clinical Surgery.*  
CHARLES M. GREEN, M.D., *Assistant Professor of Obstetrics, and Secretary of the Faculty.*  
HERBERT L. BURRELL, M.D., *Assistant Professor of Clinical Surgery.*  
HAROLD C. ERNST, M.D., *Professor of Bacteriology.*

CHARLES HARRINGTON, M.D., *Instructor in Materia Medica and Hygiene.*

THEOBALD SMITH, M.D., *George Fabyan Professor of Comparative Pathology.*

WILLIAM T. PORTER, M.D., *Assistant Professor of Physiology.*

FRANKLIN DEXTER, M.D., *Assistant Professor of Anatomy.*

FRANK B. MALLORY, M.D., *Assistant Professor of Pathology.*

WILLIAM A. BROOKS, JR., M.D., *Demonstrator of Anatomy.*

---

#### OTHER INSTRUCTORS.

THEODORE W. FISHER, M.D., *Lecturer on Mental Diseases.*

SAMUEL H. DURGIN, M.D., *Lecturer on Hygiene.*

HENRY P. QUINCY, M.D., *Instructor in Histology.*

JOHN H. MCCOLLOM, M.D., *Instructor in Contagious Diseases.*

ABNER POST, M.D., *Instructor in Syphilis.*

ELBRIDGE G. CUTLER, M.D., *Instructor in the Theory and Practice of Physic.*

EDWARD M. BUCKINGHAM, M.D., *Instructor in Diseases of Children.*

JOHN B. SWIFT, M.D., *Assistant in Gynaecology.*

WILLIAM W. GANNETT, M.D., *Instructor in Clinical Medicine.*

CHARLES F. WITHERINGTON, M.D., *Instructor in Clinical Medicine.*

VINCENT Y. BOWDITCH, M.D., *Instructor in Clinical Medicine.*

SAMUEL J. MIXTER, M.D., *Assistant in Operative Surgery.*

GEORGE H. MONKS, M.D., *Instructor in Clinical Surgery, and Assistant in Operative Surgery.*

MYLES STANDISH, M.D., *Assistant in Ophthalmology.*

FRANCIS S. WATSON, M.D., *Instructor in Genito-Urinary Surgery.*

HERMAN F. VICKERY, M.D., *Instructor in Clinical Medicine.*

JOHN T. BOWEN, M.D., *Instructor in Dermatology.*

WILLIAM M. CONANT, M.D., *Assistant in Clinical and Operative Surgery.*

GEORGE HAVEN, M.D., *Instructor in Gynaecology.*

HENRY JACKSON, M.D., *Instructor in Clinical Medicine.*

GEORGE G. SEARS, M.D., *Instructor in Clinical Medicine.*

ROBERT W. LOVETT, M.D., *Assistant in Clinical Surgery.*

JOHN C. MUNRO, M.D., *Instructor in Clinical Surgery.*

FRANZ PFAFF, M.D., *Instructor in Pharmacology.*

EDWARD REYNOLDS, M.D., *Instructor in Obstetrics, and Assistant in Gynaecology.*

FREDERICK E. CHENEY, M.D., *Assistant in Ophthalmology.*

CHARLES L. SCUDDER, M.D., *Assistant in Clinical and Operative Surgery.*

ELISHA H. GREGORY, Jr., M.D., *Instructor in Histology and Embryology.*

ARTHUR K. STONE, M.D., *Assistant in Bacteriology.*

BENJAMIN TENNEY, M.D., *Instructor in Anatomy.*

EDWIN E. JACK, M.D., *Assistant in Ophthalmology.*

JAMES O. JORDAN, Ph.G., *Assistant in Materia Medica.*

PAUL THORNDIKE, M.D., *Assistant in Genito-Urinary and Clinical Surgery.*

GEORGE A. CRAIGIN, M.D., *Assistant in Diseases of Children.*

JAMES G. MUMFORD, M.D., *Assistant in Clinical Surgery.*

EUGENE A. CROCKETT, M.D., *Assistant in Otology.*

LANGDON FROTHINGHAM, M.D.V., *Assistant in Pathology.*

EDWIN W. DWIGHT, M.D., *Assistant in Clinical Surgery and Legal Medicine.*

FRANK ALBERT HIGGINS, M.D., *Assistant in Obstetrics.*

EDWARD H. NICHOLS, M.D., *Demonstrator of Surgical Pathology and Assistant in Pathology.*

ALFRED L. T. SCHAPER, M.D., *Demonstrator of Histology and Embryology.*

JOHN L. AMES, M.D., *Assistant in Histology.*

JOHN B. BLAKE, M.D., *Assistant in Anatomy.*

AUGUSTUS S. KNIGHT, M.D., *Assistant in Clinical Medicine.*

HOWARD A. LOTHROP, M.D., *Assistant in Anatomy.*

JOHN L. MORSE, M.D., *Assistant in Clinical Medicine.*

ARTHUR H. WENTWORTH, M.D., *Assistant in Pathology and Diseases of Children.*

CARL A. EWALD, M.D., *Assistant in Chemistry.*

FRED B. LUND, M.D., *Assistant in Anatomy.*

CHARLES A. PORTER, M.D., *Instructor in Surgery.*

EDWARD W. TAYLOR, M.D., *Instructor in Neuro-pathology.*

JOHN N. COOLIDGE, M.D., *Assistant in Bacteriology.*

J. BERGEN OGDEN, M.D., *Assistant in Chemistry.*

EUGENE A. DARLING, M.D., *Assistant in Bacteriology.*

HENRY F. HEWES, M.D., *Assistant in Chemistry.*

JAMES H. WRIGHT, M.D., *Instructor in Pathology.*

PHILIP HAMMOND, M.D., *Assistant in Otology.*

CHARLES F. PAINTER, M.D., *Assistant in Surgical Pathology.*

ROBERT G. LORING, M.D., *Assistant in Anatomy.*

FRANKLIN S. NEWELL, M.D., *Assistant in Obstetrics.*

WALTER BAUMGARTEN, M.D., *Assistant in Physiology.*

LOUIS J. J. MUSKENS, M.D., *Assistant in Physiology.*

COLIN C. STEWART, PH.D., *Assistant in Physiology.*

NEWTON S. BACON, A.B., *Assistant in Chemistry.*

ROBERT S. WOODWORTH, A.M., *Assistant in Physiology.*

The following gentlemen will give special clinical instruction:—

JOHN HOMANS, M.D., *in the Diagnosis and Treatment of Ovarian Tumors.*

EDWARD COWLES, M.D., LL.D., *in Mental Diseases.*

GEORGE W. GAY, M.D., *in Surgery.*

MORTON PRINCE, M.D., GEORGE L. WALTON, M.D., and PHILIP C. KNAPP, M.D., *in Diseases of the Nervous System.*

THOMAS A. DE BLOIS, M.D., JOHN W. FARLOW, M.D., and ALGERNON COOLIDGE, JR., M.D., *in Laryngology.*

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### STANDING COMMITTEES, 1897-98.

OFFICE HOURS: *Dean, Tu. and Fri. 12.15-1 P.M. Secretary, Mon. and Thurs. 12-1 P.M.*

*Executive Committee.*—The Dean (*Chairman*), and Drs. SHATTUCK, BRADFORD, C. M. GREEN, and W. T. PORTER.

*Advertising and Catalogue.*—Dr. WOOD (*Chairman*), and Drs. WHITNEY and MALLORY.

*Admission Examinations.*—Dr. BLAKE (*Chairman*), and Drs. DAVENPORT, HILLS, WHITNEY, ERNST, and HARRINGTON.

*Course of Study.*—Dr. FITZ (*Chairman*), and Drs. BOWDITCH, DRAPER, MASON, C. B. PORTER, W. L. RICHARDSON, and DWIGHT.

*Nominations.*—Dr. DRAPER (*Chairman*), and Drs. ROTCH, COUNCILMAN, BURRELL, and BROOKS.

*Building.*—Dr. WOOD (*Chairman*), and Drs. W. L. RICHARDSON and WHITNEY.

*Library.*—Dr. BOWDITCH (*Chairman*), and Drs. FITZ, DWIGHT, BRADFORD, HILLS, and MINOT.

*Graduate Courses.*—Dr. WADSWORTH (*Chairman*), and Drs. BRADFORD, BURRELL, SMITH, and DEXTER.

*Summer Courses.*—Dr. DRAPER (*Chairman*), and Drs. J. O. GREEN and J. J. PUTNAM.

*Bullard Fellowships.*—Dr. BOWDITCH (*Chairman*), and Drs. DWIGHT, COUNCILMAN, MINOT, ERNST, and SMITH.

*Applications to Teach.*—Dr. BRADFORD (*Chairman*), and Drs. FITZ and W. T. PORTER.

*Warren Museum.*—Dr. WARREN (*Chairman*), and Drs. WHITNEY, COUNCILMAN, W. T. PORTER, and DEXTER.

## STUDENTS.

## IN COURSES FOR GRADUATES.

1896-97.\*

Bancroft, Frank Watts, B.S. ( <i>Univ. of Cal.</i> )	
1894, M.S. ( <i>Ibid.</i> ) 1896,	Cambridge.
Bartol, John Washburn, A.B. 1887, M.D. 1891,	Boston.
Battershall, Joseph Ward, M.D. ( <i>Coll. of P. &amp; S.</i> , N.Y.) 1874,	Attleboro.
Bell, Robert, M.D. 1884,	Roxbury.
Betts, Helen Loretta, M.D. ( <i>Woman's Med. Coll.</i> of Penn.) 1872,	Jamaica Plain.
Bridgman, Samuel Crosby, M.D. ( <i>Bowdoin Coll.</i> ) 1882,	So. Braintree.
Brough, David Dandie, A.B. ( <i>Princeton Coll.</i> ) 1888, M.D. 1892,	Boston.
Brown, Roscoe Ellsworth, M.D. 1876,	Everett.
Burrell, Herbert Leslie, M.D. 1879,	Boston.
Cheney, Frederick Edward, M.D. 1885,	Boston.
Clark, Joseph Payson, A.B. 1882, M.D. 1887,	Boston.
Cushing, Hayward Warren, A.B. 1877, M.D. 1882,	Boston.
Day, Clarence Currier, M.D. ( <i>Dartmouth Med.</i> <i>School</i> ) 1891,	Newburyport.
Deshon, George Durfee, M.D. ( <i>Bellevue Hosp.</i> <i>Med. Coll.</i> ) 1890, M.D. ( <i>Univ. of Pa.</i> ) 1893,	Boston.
Donoghue, Francis Dennis, M.D. 1894,	Boston.
Fernald, Walter Elmore, M.D. ( <i>Bowdoin Coll.</i> ) 1881,	Waverley.
Foss, John William, M.D. ( <i>American Health</i> <i>Univ.</i> ) 1894,	Boston.
Foster, Clarence Atwood, M.D. 1889,	Somerville.
Gatchell, Willis Le Forest, M.D. ( <i>Maine Med.</i> <i>School</i> ) 1882,	Jamaica Plain.
Gay, Warren Fisher, A.B. 1890, M.D. 1893,	Boston.
George, Arthur Phillips, M.D. ( <i>Dartmouth Med.</i> <i>Coll.</i> ) 1896,	Haverhill.
Goddard, Henry Edward, A.B. ( <i>Brown Univ.</i> ) 1895, M.D. ( <i>Dartmouth Med. Coll.</i> ) 1896,	Brockton.
Greene, Lorenzo Milton, M.D. ( <i>Univ. of Vt.</i> ) 1876,	Bethel, Vt.
Greene, Nathaniel, M.D. 1862,	Boston.

\* Entering after the issue of the Catalogue of 1896-97.

Greene, William Addison, M.D. ( <i>Dartmouth Med. Coll.</i> ) 1897,	Amesbury.
Hayes, Thomas Joseph, M.D. 1887,	Beverly.
Hunt, Alden Franklin, M.D. ( <i>Med. School of Me.</i> ) 1889,	Portland, Me.
Jelly, Arthur Carlton, A.M., M.D. 1891,	Boston.
Johnson, Hiram Leonard, M.D. ( <i>Dartmouth Med. Coll.</i> ) 1896,	Boston.
Kelly, Michael, M.A. ( <i>Holy Cross Coll.</i> ) 1879, M.D. ( <i>Bellervue Hosp. Med. Coll.</i> ) 1885,	Fall River.
Kingsbury, Albert Dexter, M.D. ( <i>Georgetown Med. Coll.</i> ) 1869,	Boston.
Kittredge, Frank Everett, M.D. ( <i>Univ. of Pa.</i> ) 1885,	Nashua, N. H.
Knowles, James Harris, A.B. ( <i>Dalhousie Coll.</i> ) 1882, M.D. ( <i>Univ. of Pa.</i> ) 1886,	Gloucester.
Mangan, John Joseph, M.D. ( <i>Coll. of P. &amp; S., Boston</i> ) 1891, A.M. ( <i>Holy Cross Coll.</i> ) 1896,	Lynn.
McCreery, George, A.M. ( <i>St. John's Coll.</i> ) 1876, M.D. ( <i>Bellervue Hosp. Med. Coll.</i> ) 1877,	Boston.
Morrison, William Alexander, M.D. 1889,	East Boston.
Page, Calvin Gates, A.B. 1890, M.D. 1894,	Boston.
Painter, Charles Fairbank, A.B. ( <i>Johns Hopkins Univ.</i> ) 1891, M.D. 1895,	Boston.
Saltmarsh, George Harrison, M.D. ( <i>Dartmouth Coll.</i> ) 1883,	Lakeport, N. H.
Stone, James Savage, A.M., M.D. 1894,	Boston.
Storer, John, M.D. ( <i>Hahnemann Med. Coll., Chicago</i> ),	Jamaica Plain.
Swan, Will Howard, M.D. 1891,	Beverly.
Swarts, Gardner Tabor, M.D. 1879,	Providence, R. I.
Sylvester, William Hillman, M.D. ( <i>Bowdoin Med. School</i> ) 1876,	Natick.
Tucker, Samuel Chase, M.D. ( <i>Dartmouth Med. School</i> ) 1892,	Peabody.
White, Charles James, A.B. 1890, M.D. 1893,	Boston.
Whitney, Charles Melville, M.D. 1887,	Boston.

## 1897-98.

\*Brownrigg, Albert Edward, M.D. (*Baltimore Med. Coll.*) 1897,

Pictou, N. S.

\*Chapman, Lorenzo, M.D. 1893,

Amherst, N. S.

\* Graduates taking full course tickets.

Couch, John Francis, M.D. 1872,	Somerville.
Darling, Walter, M.D. ( <i>Univ. of Minnesota</i> ) 1895,	Minneapolis, Minn.
*Dobson, Haveloch Lindley, M.D. ( <i>Bellevue Hosp. Med. Coll.</i> ) 1891,	Ashland, Me.
*Feindel, Joseph Creighton, M.D. ( <i>Coll. of P. &amp; S., Baltimore</i> ) 1894,	New Germany, N. S.
*Foss, John William, M.D. ( <i>American Health Univ.</i> ) 1894,	Boston.
Gerry, Edwin Peabody, A.B. ( <i>Dartmouth Coll.</i> ) 1869, M.D. 1874,	Jamaica Plain.
Grant, William Herbert, M.D. 1896,	Boston.
Hall, Charles Henry, D.V.S. ( <i>American Vet. Coll.</i> ) 1877, M.D. ( <i>Univ. of the City of N. Y.</i> ) 1881,	Boston.
*Hamlin, William Edward, M.D. ( <i>Baltimore Med. Coll.</i> ) 1893,	Waltham.
*Jeffers, Edward, M.D. ( <i>Coll. of P. &amp; S., Baltimore</i> ) 1897,	Parrsboro, N. S.
O'Connor, Thomas Henry, M.D. ( <i>Bellevue Hospital Med. Coll.</i> ) 1883,	Clinton.
*McLean, James Clifford, M.D. ( <i>Coll. of P. &amp; S., Baltimore</i> ) 1897,	Kentville, N. S.
*Ramachandryya, Prabala, A.B. ( <i>Madras Christian Coll.</i> ) 1885, M.D. ( <i>Baltimore Med. Coll.</i> ) 1897,	Madras, India.
*Rice, Walter Henry, M.D. ( <i>Tufts Med. School</i> ) 1896,	Waltham.
Shaw, Albert John, M.D. 1894,	Boston.
*Southwick, George Rinaldo, M.D. ( <i>Boston Univ.</i> ) 1881,	Boston.
Thompson, Charles Arthur, M.D. ( <i>Coll. of P. &amp; S., Baltimore</i> ) 1896,	Brookline.

## FOURTH CLASS.

Atkinson, Roger Trowbridge, A.B. 1894,	Wakefield.
Bacon, Theodore Spaulding, B.S. ( <i>Boston Univ.</i> ) 1894,	Natick.
Bailey, Walter Channing, A.B. 1894,	East Somerville.
Balch, Alfred William, Ph.G. ( <i>Mass. Coll. of Pharm.</i> ) 1894,	Boston.

Bartlett, Samuel Danforth,	Woburn.
Beal, Howard Walter,	Boston.
Beebe, Arthur Appleton, A.B. 1894,	Boston.
Binford, Ferdinand Augustus,	Pawtucket, R. I.
Birge, Russell Hall, A.B. ( <i>Brown Univ.</i> ) 1894,	Providence, R. I.
Bonney, Robert,	Chelsea.
Boodro, William Henry,	So. Boston.
Brown, Alphonso Bickford, A.B. ( <i>Yale Univ.</i> ) 1894,	Dover, N. H.
Buck, Maurice Allan,	No. Wilmington.
Cabot, Hugh, A.B. 1894,	Brookline.
Cary, Foster Harrington,	Millbury.
Churchill, Donald, A.B. 1893,	Andover.
Collins, William James,	Ware.
Crandon, LeRoi Goddard, A.B. 1894,	Boston.
Crawford, Francis Xavier, A.B. ( <i>Boston Coll.</i> ) 1894,	So. Boston.
Cronin, Michael John,	Haverhill.
Cummings, Frederic Russell,	Boston.
Currier, William Eugene, A.B. ( <i>Bowdoin Coll.</i> ) 1894,	Leicester.
Davis, Lincoln, A.B. 1894,	Boston.
Dearborn, Sam Starrett, A.B. 1894,	Nashua, N. H.
Donlan, Charles Edwin,	Lowell.
Dorgan, Joseph Aloysius,	Lawrence.
Dowd, Edward Francis, A.B. ( <i>Georgetown Univ.</i> ) 1894,	So. Natick.
Drake, Arthur Knowlton,	Bristol, N. H.
Dray, Frank Raymond, A.B. ( <i>Leland Stanford Jr. Univ.</i> ) 1895,	Sacramento, Cal.
Duckering, William West,	Dorchester.
Ellis, William Raymond,	Cambridge.
Emerson, Ernest Benjamin,	Everett.
Everett, Eugene Ellsworth, A.B. ( <i>Brown Univ.</i> ) 1894,	Boston.
Fair, John Francis,	Natick.
Ferguson, Edward Hugh,	So. Boston.
Field, Harvey Adams,	Quincy.
Fischer, Oscar Edward,	Salem, Mo.
Fitzgerald, Maurice Edward, Jr.	Boston.
Forrest, Robert Francis,	Watertown.
Gallagher, Thomas Morton,	Wellesley.
Gaylord, William Avery,	Pawtucket, R. I.
Germain, Harry Homer,	Los Angeles, Cal.

Gibbons, Sherwin, A.B. 1894,	<i>Jamaica Plain.</i>
Griffin, Clifford Henry, A.B. ( <i>Brown Univ.</i> ) 1894,	<i>Providence, R. I.</i>
Grimes, James Henry,	<i>Boston.</i>
Hamilton, Walter,	<i>Holyoke.</i>
Hancock, John Clifford, A.B. 1895,	<i>Dubuque, Ia.</i>
Hardy, Theodore Everett,	<i>Farmington, Me.</i>
Hart, Joseph Storer,	<i>So. Lincoln.</i>
Hartnett, Edward Daniel,	<i>E. Boston.</i>
Hartwell, Harry Fairbanks, A.B. 1895,	<i>Boston.</i>
Harvey, William Wirt,	<i>Roxbury.</i>
Hatfield, Hugh Kerr,	<i>Boston.</i>
Hayes, Albert Edwin,	<i>Birmingham, Eng.</i>
Healy, Daniel Lawrence, A.B. ( <i>Boston Coll.</i> ) 1894,	<i>W. Newton.</i>
Hinchey, Richard,	<i>Lexington.</i>
Holt, Frank Hammett, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1895,	<i>Newport, R. I.</i>
Howard, Eugene Henry, A.B. ( <i>Holy Cross Coll.</i> ) 1894,	<i>No. Brookfield.</i>
Howe, Walter Clarke, A.B. ( <i>Amherst Coll.</i> ) 1894,	<i>Dedham.</i>
Hudnut, Paul Albert,	<i>Wellesley.</i>
Huntington, Alfred Thomas,	<i>Chelsea.</i>
Hyde, Frederick Tanquary,	<i>Winchester, Va.</i>
Johnson, Walter Sydney, A.B. 1894,	<i>Minneapolis, Minn.</i>
Kahn, Maurice,	<i>Leadville, Col.</i>
Keate, Walter,	<i>St. George, Utah.</i>
Kennedy, Harris, A.B. 1894,	<i>Roxbury.</i>
King, Myron Louis,	<i>Cambridge.</i>
Ladd, Maynard, A.B. 1894,	<i>Jamaica, Long Island.</i>
Mackay, Edward Hart,	<i>Clinton.</i>
Mackie, William Charles, A.B. 1894,	<i>Boston.</i>
Magrath, George Burgess, A.B. 1894,	<i>Milton.</i>
Mahoney, Cornelius James,	<i>Providence, R. I.</i>
Manix, Edward Tuck,	<i>Exeter, N. H.</i>
Marston, Joseph Norris,	<i>Lowell.</i>
May, William Ropes, A.B. 1894,	<i>Philadelphia, Pa.</i>
McAllister, Frederick Danforth, A.B. ( <i>Amherst Coll.</i> ) 1894,	<i>Lawrence.</i>
McAuslan, James Lewis,	<i>Marlboro.</i>
McEvoy, George Albert,	<i>Lawrence.</i>
Mellus, Edward, A.B. 1895,	<i>Mattapan.</i>
Merriam, Franklin Henry,	<i>Greenville, N. H.</i>

Moore, James Spencer, A.B. ( <i>Brown Univ.</i> ) 1894,	<i>E. Providence, R. I.</i>
Musgrave, Percy, A.B. 1894,	<i>Boston.</i>
Newton, Edward Roswell,	<i>Hartford, Conn.</i>
O'Brien, Walter John Leo,	<i>So. Boston.</i>
Parker, Edward Grahame,	<i>Auburndale.</i>
Paul, Luther Gordon,	<i>Newton Centre.</i>
Peirce, George Alphonso.	<i>Roxbury.</i>
Perry, Edgar, A.B. ( <i>Brown Univ.</i> ), A.M. ( <i>Ibid.</i> )	
1880,	<i>Boston.</i>
Pierce, George Burgess, A.B. 1893,	<i>Milton.</i>
Pike, Forrest Fay,	<i>Roxbury.</i>
Prevaux, John Jacob,	<i>Amesbury.</i>
Provandie, Paul Hector,	<i>Melrose Highlands.</i>
Rideout, Herman Leslie,	<i>Highlands, N. C.</i>
Rose, Alwyn, PH.G. ( <i>Mass. Coll. of Pharm.</i> )	
1890,	<i>Roxbury.</i>
Rose, William Henry,	<i>Worcester.</i>
Ross, Lucretius Henry, A.B. ( <i>Middlebury Coll.</i> )	
1890,	<i>Poultney, Vt.</i>
Rounds, Albert Waterman,	<i>Providence, R. I.</i>
Small, Richard Dresser, A.B. 1894,	<i>Portland, Me.</i>
Stowe, Irving Elmer,	<i>Boston.</i>
Sughrue, Dennis Francis,	<i>Dorchester.</i>
Thompson, Richard Henry, B.S. ( <i>Worcester Poly- tech. Inst.</i> ) 1892,	<i>Boston.</i>
Tilden, Irving Niles, S.B. 1894,	<i>New Bedford.</i>
Tobin, John Henry,	<i>Lawrence.</i>
Truesdale, Philemon Edwards,	<i>Roxbury.</i>
Turner, Charles Humphrey, A.B. ( <i>Williams Coll.</i> ) 1881,	<i>Blackinton.</i>
Walker, David Harold,	<i>Pittsburg, Pa.</i>
Ward, Parker Myles,	<i>Boston.</i>
Ward, William Greenleaf,	<i>Lynn.</i>
Watson, Frank Gilman,	<i>Roxbury.</i>
Weil, Arthur Irving,	<i>Huntsville, Ala.</i>
Weis, Joseph Deutsch,	<i>New Orleans, La.</i>
Wennerberg, Francis Joseph,	<i>Boston.</i>
White, Michael William, A.B. ( <i>Boston Coll.</i> )	
1894,	<i>E. Weymouth.</i>
Williams, Hugh, A.B. 1894,	<i>Brookline.</i>
Woods, Frederick Adams,	<i>Brookline.</i>
Wormelle, Charles Burton,	<i>Brighton.</i>
York, Herbert Leroy,	<i>Dorchester.</i>

## THIRD CLASS.

Allen, Freeman, A.B. 1893,	<i>Boston.</i>
Bacon, Newton Samuel, A.B. 1895,	<i>Cambridge.</i>
Bailey, William Thomas, B.S. ( <i>Dartmouth Coll.</i> ) 1891,	<i>Nashua, N. H.</i>
Baker, Albert Sherburne, A.B. ( <i>Amherst Coll.</i> ) 1894,	<i>Boston.</i>
Bamji, Manak, L.C.E., B.Sc. ( <i>Bombay Univ.</i> ) 1889,	<i>Bombay, India.</i>
Barnes, James Arthur, A.B. ( <i>Holy Cross Coll.</i> ) 1895,	<i>Fitchburg.</i>
Bedell, Charles Ellsworth,	<i>Somerville.</i>
Boutelle, Harry Clifton,	<i>Dorchester.</i>
Bowen, Alfred Preston,	<i>Lynn.</i>
Boyer, Joseph Napoleon, Jr.	<i>Springfield.</i>
Brenneman, Richard Emmor,	<i>Congo, W. Va.</i>
Brock, Lawrence Ambrose, A.B. ( <i>Boston Coll.</i> ) 1895,	<i>Malden.</i>
Bryant, Fred, A.B. ( <i>Colby Univ.</i> ) 1895,	<i>Pittsfield, Me.</i>
Burke, William Henry,	<i>Watertown.</i>
Cadigan, John Joseph, A.B. ( <i>Boston Coll.</i> ) 1891, A.M. ( <i>St. Francis Xavier Coll.</i> ) 1892,	<i>Boston.</i>
Callahan, Joseph Thomas,	<i>Woburn.</i>
Carmody, William Francis, A.B. ( <i>Holy Cross Coll.</i> ) 1885,	<i>Worcester.</i>
Carroll, Thomas Francis,	<i>Roxbury.</i>
Clarke, Elliott Mason,	<i>Hope Valley, R. I.</i>
Cleveland, Heber Howe,	<i>Somerville.</i>
Cliff, Alfred Addington,	<i>Boston.</i>
Crane, Carl Custer,	<i>Melrose.</i>
Crosby, Walter Theodore, B.P. ( <i>Brown Univ.</i> ) 1895,	<i>Brockton.</i>
Crowell, George Marcus, A.B. ( <i>Brown Univ.</i> ) 1894,	<i>Providence, R. I.</i>
Davis, Charles Henry, A.B. 1896,	<i>Somerville.</i>
Davis, Edward Jackson, A.B. ( <i>Fisk Univ.</i> ) 1895,	<i>Sumter, S. C.</i>
Dix, George Alfred,	<i>Somerville.</i>
Dodge, Arthur Malcolm,	<i>Hampton Falls, N. H.</i>
Easton, Elwood Tracy,	<i>Rockland.</i>
Emerson, William Robie Patten, A.B. ( <i>Dartmouth Coll.</i> ) 1892,	<i>Candia, N. H.</i>
Fiske, Charles Norman,	<i>Upton.</i>

Friedman, Leo Victor, A.B. 1895,	<i>Boston.</i>
Galloupe, Joseph Abbott,	<i>Beverly.</i>
Gavin, Joseph Leo,	<i>So. Boston.</i>
Geib, Frank Julius, A.B. 1895,	<i>Cleveland, O.</i>
Glidden, Howard Kenneth,	<i>No. Cambridge.</i>
Golden, Lazarus,	<i>E. Boston.</i>
Graves, William Phillips, A.B. ( <i>Yale Coll.</i> ) 1891,	<i>Andover.</i>
Greene, Daniel Crosby, Jr., A.B. 1895,	<i>Boston.</i>
Grimes, Jesse Rideout,	<i>Franconia, N. H.</i>
Hall, James Frank, A.B. 1897,	<i>Lowell.</i>
Halloran, Timothy Joseph, A.B. ( <i>Holy Cross Coll.</i> ) 1894,	<i>Lowell.</i>
Hammond, William John,	<i>Quincy.</i>
Harvey, John Franklin,	<i>Boston.</i>
Haskins, Frank Henry, A.B. ( <i>Williams Coll.</i> ) 1893,	<i>Springfield.</i>
Hatch, Edward Sparhawk,	<i>Brighton.</i>
Herrick, Timothy George,	<i>Newport, N. H.</i>
Hill, George Sumner,	<i>Somerville.</i>
Howard, Joseph Francis,	<i>Lawrence.</i>
Jack, Lewis Harlow,	<i>Portland, Me.</i>
Jameson, Herbert Wendell, A.B. 1895,	<i>Jamaica Plain.</i>
Jefferson, Willis Grover,	<i>Norwood.</i>
Johnson, Harold Abbott, A.B. ( <i>Williams Coll.</i> ) 1895,	<i>Brookfield.</i>
Jouett, Fred Robert, A.B. 1896,	<i>Somerville.</i>
Knowlton, John Greenleaf Whittier, A.B. ( <i>Bowdoin Coll.</i> ) 1895,	<i>Boston.</i>
Lane, Walter Appleton, A.B. ( <i>Dartmouth Coll.</i> ) 1895,	<i>Chicago, Ill.</i>
Latham, Benoni Mowry,	<i>Smithfield, R. I.</i>
Lazarus, Benjamin,	<i>Boston.</i>
Leighton, William Elston, A.B. ( <i>Bowdoin Coll.</i> ) 1895,	<i>Deering, Me.</i>
McAdams, Peter Stevens, A.B. 1895,	<i>Somerville.</i>
McCarthy, Frederick,	<i>Malden.</i>
McDermott, Joseph Edward,	<i>Charlestown.</i>
Macdonald, William Clifford,	<i>Boston.</i>
McDonald, William Joseph, A.B. 1895,	<i>Charlestown.</i>
McLaren, Alexander Lorne,	<i>E. Boston.</i>
McGirr, Felix Francis, A.B. 1895,	<i>Cambridge.</i>
Manahan, Thomas James, S.B. 1896,	<i>Boston.</i>

Moore, Philip Patrick,	<i>Gloucester.</i>
Morgan, John Albert,	<i>Hyde Park.</i>
Moser, Albert, A.B. ( <i>Oberlin Coll.</i> ) 1892,	<i>Lima, O.</i>
Murphy, Stephen Nicholas,	<i>Danversport.</i>
Nielsen, Edwin Björne,	<i>Montpelier, Vt.</i>
Nightingale, James,	<i>Manchester, N. H.</i>
O'Brien, Thomas James, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1895,	<i>Somerville.</i>
Odiorne, Walter Burlingame, A.B. 1895,	<i>Cambridge.</i>
Osgood, Robert Bayley, A.B. ( <i>Amherst Coll.</i> ) 1895,	<i>Salem.</i>
Page, Parkhurst,	<i>No. Danvers.</i>
Parker, Maurice Wesley,	<i>Chicago, Ill.</i>
Perkins, Herbert Crawford,	<i>Lowell.</i>
Pierce, Charles Willard, A.B. ( <i>Boston Univ.</i> ) 1895,	<i>Ashland.</i>
Pillsbury, Borden Harlin, A.B. ( <i>Dartmouth Coll.</i> ) 1895,	<i>Lowell.</i>
Pote, Leonard Holden,	<i>Somerville.</i>
Potter, Alexander Carleton, A.B. 1895,	<i>Boston.</i>
Pritchard, William Percival,	<i>Fall River.</i>
Ray, Robert Bentley,	<i>Barnes, Ohio.</i>
Reagh, Arthur Lincoln, S.B. 1894,	<i>W. Roxbury.</i>
Reilly, James Aloysius,	<i>So. Boston.</i>
Ryder, George Hale, PH.B. ( <i>Wesleyan Univ.</i> ) 1895,	<i>Hartford, Conn.</i>
Saunders, Joseph Henry, A.B. ( <i>Tufts Coll.</i> ) 1895,	<i>Boston.</i>
Sawyer, Edward Keyes,	<i>Somerville.</i>
Sayward, William Henry, Jr., S.B. ( <i>Mass. Inst. of Tech.</i> ) 1894,	<i>Dorchester.</i>
Schmidt, Frederick Sextus, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1895,	<i>Roxbury.</i>
Seelye, Walter Clark, A.B. ( <i>Amherst Coll.</i> ) 1895,	<i>Northampton.</i>
Shaw, Francis,	<i>New Bedford.</i>
Silbert, Joseph,	<i>Boston.</i>
Silver, David,	<i>Wellsville, O.</i>
Simmons, Channing Chamberlain,	<i>Boston.</i>
Simmons, Samuel Ewer, A.B. ( <i>Leland Stanford, Jr. Univ.</i> ) 1895,	<i>Sacramento, Cal.</i>
Smith, Richard Augustine, A.B. ( <i>Boston Coll.</i> ) 1894,	<i>Roxbury.</i>

Snow, Frederick Stedman, A.B. 1895,	<i>Jamaica Plain.</i>
Souther, Robert, A.B. 1894,	<i>New York, N. Y.</i>
Spalter, Charles Marsh,	<i>Keene, N. H.</i>
Stone, Warren Buxton,	<i>Lynn.</i>
Swift, Henry Marshall, A.B. 1894,	<i>Marlboro.</i>
Taylor, John Danforth,	<i>E. Boston.</i>
Thayer, Hartley Wales, A.B. ( <i>Yale Univ.</i> ) 1895,	<i>Holbrook.</i>
Thomas, John Willard, A.B. 1895,	<i>Cambridge.</i>
Tileston, Wilder, A.B. 1895,	<i>Mattapan.</i>
Wales, Ernest de Wolfe,	<i>Braintree.</i>
Warden, Ralph Alexander,	<i>Boston.</i>
Waterman, George Arthur A.B. 1895,	<i>Malden.</i>
Whoriskey, John Joseph,	<i>Cambridge.</i>
Wilkins, Charles Downes,	<i>Peterboro, N. H.</i>
Wilkins, George Clarence,	<i>Manchester, N. H.</i>
Wood, Frank Lyon,	<i>Boston.</i>
Woodbury, Herbert Elwell, B.S. ( <i>Boston Univ.</i> ) 1889,	<i>Gloucester.</i>
Worth, Edward Philip, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1895,	<i>Edgartown.</i>
Yardumian, Mamong Garabet,	<i>Boston.</i>
Zavala, Joaquin, Jr.,	<i>Nicaragua, C. A.</i>

## SECOND CLASS.

Adams, Carl Shadiker	<i>Newtonville.</i>
Atwood, Charles Fenner, A.B. 1896,	<i>Manton, R. I.</i>
Bancroft, Irving Reed, PH.B. ( <i>Tufts Coll.</i> ) 1897,	<i>Woburn.</i>
Barker, Harry Learned, B.A. ( <i>Amherst Coll.</i> ) 1896,	<i>Pittsfield.</i>
Barnes, Lynn Moore, A.B. 1896,	<i>Decatur, Ill.</i>
Barrell, Charles Sewell,	<i>York Corner, Me.</i>
Bartol, Edward Francis Washburn, A.B. 1896,	<i>Lancaster.</i>
Beebe, Theodore Chapin, Jr., A.B. 1896,	<i>Springfield.</i>
Beering, Frederick William, Jr.	<i>So. Boston.</i>
Belt, Edward Jones,	<i>So. Boston.</i>
Bergengren, Charles Henry,	<i>Lynn.</i>
Bergin, Stephen Albert, A.B. ( <i>Boston Coll.</i> ) 1896,	<i>Waltham.</i>
Bicknell, Ralph Emerson,	<i>No. Weymouth.</i>
Blodgett, William Ernest, A.B. 1896,	<i>Newton.</i>
Brayton, Roland Walker,	<i>Dorchester.</i>
Breed, Nathaniel Perkins,	<i>Salem.</i>
Brennan, Joseph Thomas Louis,	<i>Lowell.</i>

Brown, Fred Phillips,	<i>Haverhill.</i>
Brown, Percy Emerson,	<i>Cambridge,</i>
Bryant, Charles Sawyer, A.B. 1896,	<i>Newton Highlands.</i>
Burke, Walter Thomas, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1891,	<i>Natick.</i>
Burnham, Melvin Paige,	<i>Andover.</i>
Campbell, William Joseph, A.B. ( <i>Boston Coll.</i> ) 1896,	<i>Marlboro.</i>
Canedy, Charles Francis, B.A. ( <i>Williams Coll.</i> ) 1896,	<i>Shelburne Falls.</i>
Cannon, Walter Bradford, A.B. 1896, A.M. 1897,	<i>St. Paul, Minn.</i>
Chase, Walter Greenough, A.B. 1882,	<i>Brookline.</i>
Cheney, Ernest Linwood,	<i>Wakefield.</i>
Churchill, John Darling, 2d,	<i>Plymouth.</i>
Cleaves, Ezra Eames,	<i>Rockport.</i>
Cloudman, Harry Radcliffe,	<i>Boston.</i>
Collins, George Leman, A.B. 1896,	<i>Dorchester.</i>
Collins, Richard, A.B. ( <i>Colby Univ.</i> ) 1896,	<i>Calais, Me.</i>
Conner, Homer Leigh,	<i>Haverhill.</i>
Connolly, John Matthew, A.B. ( <i>Holy Cross Coll.</i> ) 1890, A.M. ( <i>Ibid</i> ) 1892,	<i>Cambridge,</i>
Coolidge, Sumner, A.B. 1883,	<i>Watertown.</i>
Cornwell, Herbert Cerdá de Vilarrestau, A.B. 1897,	<i>Cambridge.</i>
Cottrell, Henry Joseph, A.B. ( <i>Holy Cross Coll.</i> ) 1894,	<i>Newport, R. I.</i>
Cox, Simon Francis, A.B. ( <i>Boston Coll.</i> ) 1896,	<i>Lowell.</i>
Creesy, Everett Larcom, A.B. 1896,	<i>Beverly.</i>
Cromwell, Ernest Manton,	<i>East Boston.</i>
Cross, Rupert Calladon,	<i>Chelsea.</i>
Cummings, Alvah Cochran, B.S. ( <i>Dartmouth Coll.</i> ) 1896,	<i>Concord, N. H.</i>
Deacon, Charles Frederick, A.B. ( <i>Brown Univ.</i> ) 1896,	<i>Pawtucket, R.I.</i>
Derby, George Strong, A.B. 1896,	<i>Boston.</i>
Dole, Charles Frederick,	<i>Roxbury.</i>
Drummond, Edward Augustus,	<i>Brookline.</i>
Duncan, Samuel White, Jr., A.B. ( <i>Brown Univ.</i> ) 1895,	<i>Brookline.</i>
Dunn, Charles Hunter, A.B. 1896,	<i>Newport, R. I.</i>
Eastman, Alexander Crane, A.B. ( <i>Amherst Coll.</i> ) 1896,	<i>Framingham.</i>
Emerson, Robert Leonard, A.B. 1894,	<i>Cambridge.</i>

Gray, Hugh Barr,	<i>Boston.</i>
Fair, Robert Patrick,	<i>Natick.</i>
Fisher, Irving Jewell,	<i>Somerville.</i>
Fletcher, William,	<i>Providence, R. I.</i>
Fuller, Charles Benjamin, A.B. ( <i>Colby Univ.</i> ) 1896,	<i>Hallowell, Me.</i>
Gardner, George Warren, A.B. ( <i>Brown Univ.</i> ) 1894,	<i>New London, N. H.</i>
Goldie, William Valentine,	<i>New London, Conn.</i>
Gould, Alfred Henry, A.B. 1896,	<i>Boston.</i>
Grant, Dick,	<i>St. Mary's, Ont.</i>
Griffin, Walter Alden, A.B. 1897,	<i>Haverhill.</i>
Hanna, Thomas Francis, A.B. ( <i>Boston Coll.</i> ) 1896,	<i>Natick.</i>
Hardwick, Everett Vinton,	<i>Quincy.</i>
Harkins, John Francis, A.B. ( <i>Holy Cross Coll.</i> ) 1896,	<i>Quincy.</i>
Hartwell, William Winn, A.B. ( <i>Williams Coll.</i> ) 1896,	<i>Woburn.</i>
Haskell, Harris Bigelow, A.B. ( <i>Amherst Coll.</i> ) 1894,	<i>W. Falmouth, Me.</i>
Healy, William,	<i>Chicago, Ill.</i>
Hewitt, William Oakes,	<i>Taunton.</i>
Hoag, Louis,	<i>Roxbury.</i>
Holmberg, Carl Lester Magnus, A.B. ( <i>Brown Univ.</i> ) 1896,	<i>Campello.</i>
Holmes, Arthur Brewster, A.B. 1896,	<i>Kingston.</i>
Howard, Perez Briggs,	<i>Brookline.</i>
Howell, William Wescott, A.B. 1896,	<i>Jamaica Plain.</i>
Hoyt, William Welles,	<i>Cambridge.</i>
Hunt, George Pratt,	<i>E. Weymouth.</i>
Jackson, James Marcus,	<i>Brighton.</i>
Johnson, Herbert,	<i>Waltham.</i>
Joslin, Samuel Lees,	<i>So. Lyndeboro, N. H.</i>
Kane, John Austin,	<i>Charlestown.</i>
Kenealy, Joseph Henry,	<i>Natick.</i>
King, Maxwell Benedict,	<i>Boston.</i>
Knight, Herbert Granville,	<i>Malden.</i>
Lane, Arthur Kempton,	<i>Boston.</i>
Leahey, Frederick Andrew,	<i>Lowell.</i>
Legg, Arthur Thornton,	<i>Chelsea.</i>
Lincoln, Merrick, A.B. 1896,	<i>Worcester.</i>
Lippincott, Walter Maynard,	<i>Fort Sheridan, Ill.</i>

Lord, Frederick Taylor, A.B. 1897,	Lexington.
Lowell, Freeman Lamprey, A.B. 1894,	Somerville.
Lowell, William Holbrook,	Newton.
McCausland, William James,	Tyne Valley, P. E. I.
McCormick, Thomas Joseph Henry, A.B. 1897,	Roxbury.
McKechnie, Frederick Joseph, A.B. ( <i>Holy Cross Coll.</i> ) 1896,	Springfield.
McKibben, William Watson, A.B. 1896,	Van Buren, Ark.
MacLachlan, Thomas Mitchell,	Brighton.
McMann, William Henry, A.B. 1896,	Roxbury.
McNamara, Thomas Francis, A.B. ( <i>Holy Cross Coll.</i> ) 1895,	So. Framingham.
Maguire, Thomas Henry,	So. Boston.
Maloney, William Valentine,	Boston.
Matteson, George Arnold, A.B. ( <i>Brown Univ.</i> ) 1896,	Providence, R. I.
Mead, Louis Guy, A.B. 1896,	West Acton.
Mertins, Paul Stearns, A.B. ( <i>Washington &amp; Lee Univ.</i> ) 1896,	Evergreen, Ala.
Mullen, John Henry, A.B., ( <i>Boston Coll.</i> ) 1896,	Waltham.
Murdock, Frederick William,	Derry, N. H.
Myer, James Walter,	New York, N. Y.
Myers, Solomon,	East Boston.
Nolan, William Francis,	Jamaica Plain.
Norton, Chauncey Williams, A.B. 1896, A.M. 1897,	Cazenovia, N. Y.
O'Leary, Dennis Cornelius, A.B. ( <i>Holy Cross Coll.</i> ) 1896,	Providence, R. I.
O'Shea, Daniel Joseph,	East Boston.
O'Shea, John Francis, A.B. ( <i>Holy Cross Coll.</i> ) 1895,	Newport, R. I.
Parker, Edward Stark, A.B. ( <i>Brown Univ.</i> ) 1896,	Providence, R. I.
Pratt, Frederick Haven, A.B. 1896,	Worcester.
Rich, Edwin Willis,	Walnut Hill.
Riley, William Norton,	Malden.
Rogers, Daniel Eastman,	Chelsea.
Rood, Luther Colby,	East Boston.
Sanborn, Fletcher Greene,	Providence, R. I.
Sanford, Henry Lindsay, A.B. 1896,	Bridgewater.
Scannell, David Daniel, A.B. 1897,	Jamaica Plain.
Scott, George Dow, B.S. ( <i>Middlebury Coll.</i> ) 1895, A.B. 1896,	Leominster.
Shaw, Frederick King,	Roxbury.

Shepard, Luther Dimmick, A.B. 1896,	Brookline.
Small, Albert Ernest, A.B. 1896,	Melrose.
Smith, Howard Harry, PH.G. ( <i>Mass. Coll. of Pharm.</i> ) 1895,	Cambridgeport
Sproules, Joseph Aloysius, A.B. ( <i>Georgetown Univ.</i> ) 1895,	Boston.
Steele, Albert Edward,	Peabody.
Sullivan, John Joseph,	So. Boston.
Sullivan, Joseph Lawrence,	Dorchester.
Sullivan, Michael Henry,	Newport, R. I.
Taylor, James, Jr.,	Southbridge.
Thompson, Ralph Leroy, A.B. ( <i>Bates Coll.</i> ) 1896,	Lisbon, Me.
Tobey, Edward Nelson, A.B., 1896,	Cambridge.
Townsend, David, A.B. 1896,	So. Natick.
Tupper, Arthur Gordon,	Rockport.
Van Magness, Benjamin, Jr.,	Chelsea.
Vejnux-Tyrode, Maurice Paul Octave,	Boston.
Vogel, George Louis,	Boston.
Wadsworth, Richard Goodwin, A.B. 1896,	Boston.
Ward, John Thomas,	Providence, R. I.
Warren, Henry Stanley,	Bangor, Me.
Warren, John, A.B. 1896,	Boston.
White, Clifford Allen, A.B. 1896,	Taunton.
White, Herbert Augustus,	Somerville.
Wight, Thomas Henry Toynbee,	Cambridge.
Winslow, Fred Bradlee, A.B., A.M., 1895,	Boston.
Winslow, George Edgar,	Boston.
Wyer, Harry Gage, A.B. 1896,	Woburn.
Young, Ralph Randal,	Dorchester.

## FIRST CLASS.

Alden, Eliot, A.B. 1897,	Washington, D. C.
Allen, Horatio Cushing, A.B. ( <i>Brown Univ.</i> ) 1897,	Marion.
Allison, Nathaniel,	St. Louis, Mo.
Almy, Robert Lawton, Jr.,	Salem.
Barrett, Michael Francis, A.B. 1897,	Hingham.
Bartley, John Joseph,	Lawrence.
Bassity, Joseph Francis,	So. Boston.
Berry, Martin Whitten, A.B. ( <i>Williams Coll.</i> ) 1895,	Portland, Me.
Bibber, Harold Thornton,	Bath, Me.

Binney, Horace, A.B. 1897,	Middletown, Conn.
Blodgett, Charles Martin,	Boston.
Bond, Walter Legrand,	Chelsea.
Boos, William Frederick, A.B. 1894, PH.D. (Heidelberg) 1896,	Jamaica Plain.
Bowen, William Henry, Jr.,	Providence, R. I.
Bowman, Alfred Winthrop,	Boston.
Brady, James Francis,	Canning, N. S.
Bragg, Leslie Raymond, B.S. ( <i>Amherst Coll.</i> ) 1897,	Reading.
Breed, Nathaniel Pope,	Lynn.
Bremer, John Lewis, A.B. 1896,	Boston.
Brewer, Albert David, A.B. ( <i>Iowa Coll.</i> ) 1895,	Grinnell, Ia.
Brinckerhoff, Walter Remsen,	Matteawan, N. Y.
Burke, Francis Ramon,	Quincy.
Burley, Benjamin Thomas, A.B. 1897,	North Epping, N. H.
Burnham, Joseph Forrest,	Lawrence.
Burnham, Parker,	Gloucester.
Burns, Walter Linn, A.B. ( <i>Villanova Coll.</i> ) 1897,	Lawrence.
Casey, Jeremiah Aloysius,	So. Boston.
Caulfield, Thomas Edward,	Woburn.
Chase, Arthur Alverdo,	Woburn.
Chase, Henry Melville, Jr., B.S. ( <i>Dartmouth Coll.</i> ) 1897,	Lawrence.
Cheever, David, A.B. 1897,	Boston.
Childs, Alfred Henry, A.B. 1897,	Deerfield.
Cholerton, Herbert,	Bridgewater.
Clark, Franklin Edward,	Brookline.
Clark, Thomas Francis,	Taunton.
Crane, Bayard Taylor,	Melrose.
Cummings, Morton Everett,	W. Medford.
Cunningham, John Henry, Jr.,	Chelsea.
Cutter, Arthur Hardy, B.S. ( <i>Mass. Agr. Coll.</i> ) 1894,	Pelham, N. H.
Davison, Arthur Howard,	Dorchester.
Desmond, Edward Mansfield,	Chelsea.
van Deusen, Herman True,	Somerville.
Doyle, John Francis,	Waltham.
Dutton, Richard,	Wakefield.
Dwinell, William Grout,	Malden.
Emerson, Benjamin Kendall, Jr., A.B. ( <i>Amherst Coll.</i> ) 1897,	Amherst.

Emery, Edward Stanley, A.B. 1887,	Boston.
Evans, Albert,	Boston.
Gale, Harold Adams,	Chicago, Ill.
Gay, Herbert Seymour,	Belchertown.
Gibson, Robert Francis,	Dorchester.
Gleason, George Hathaway,	Dorchester.
Goodwin, Charles Wilson, B.P. ( <i>Brown Univ.</i> ) 1897,	Providence, R. I.
Grady, Henry Matthew,	So. Natick.
Grainger, Henry Ambrose, A.B. ( <i>Boston Coll.</i> ) 1897,	E. Boston.
Gray, Howard Levi, A.B. ( <i>Univ. of Rochester</i> ) 1897,	Starkville, N. Y.
Griffiths, Albert Farnsworth,	Lexington.
Hapgood, Lyman Sawin, A.B. 1897,	Gloucester.
Hatch, George Coggeshall, Jr., B.P. ( <i>Brown Univ.</i> ) 1897,	New Bedford.
Hathaway, Russell, Jr., B.P. ( <i>Brown Univ.</i> ) 1897,	Fair Haven.
Hawkes, Charles Eleazer,	Portland, Me.
Hayes, James Henry, B.S. ( <i>Villanova Coll.</i> ) 1896,	Dorchester.
Herbst, Philip Frank,	Kansas City, Mo.
Hess, Peter William,	Malden.
Holmes, Howard Fowler,	Georgetown.
Hopkinson, Albert Edmund,	Brattleboro, Vt.
Hosmer, Alfred Graham,	Watertown.
Howe, Walter Henry, A.B. 1886,	Lowell.
Hoyt, Robert Eustace,	Portsmouth, N. H.
Hutchinson, Walter Perkins, A.B. 1889,	Farmington, Me.
Jackson, Howard Bigelow, A.B., 1897,	Concord.
James, Herbert Carey,	Roxbury.
Johnston, Frederic William, A.B. 1897,	New York, N. Y.
Jones, Frank Joseph,	Worcester.
Jones, Harold Wellington,	So. Lincoln.
Kelley, Walter Henry,	Dorchester.
Kennedy, Arthur Lemuel,	Denver, Col.
Kent, Bradford,	Boston.
Knickerbocker, Percy Gates,	Gloversville, N. Y.
Knight, Charles Lewis,	Deer Isle, Me.
Knight, Frank Henry,	Malden.
Knowles, Robert Keneborough Black, A.B. ( <i>Acadia Coll.</i> ) 1897,	Somerville.

Kurth, Gustav Emil,	<i>New Britain, Conn.</i>
Lavery, John William, Jr.,	<i>So. Boston.</i>
Leary, Chrysostom John,	<i>Waltham.</i>
Leen, Thomas Francis,	<i>Charlestown.</i>
Lentine, Gaspars Emanuel,	<i>Boston.</i>
Leonard, Andrew Michael,	<i>Lawrence.</i>
Lepper, David Barnard,	<i>Madison, N. H.</i>
Thomas, Lewis Frederic, A.B. 1897,	<i>Cambridge.</i>
Little, John Mason, Jr., A.B. 1897,	<i>Swampscott.</i>
Locke, Edwin Allen, B.P., A.M. ( <i>Brown Univ.</i> ) 1896,	<i>Whitman.</i>
McBain, William Hearst, A.B. ( <i>Holy Cross Coll.</i> ) 1895,	<i>Haverhill.</i>
McDonald, Samuel James, A.B. 1897,	<i>Brighton.</i>
Macmahon, Robert Quincy,	<i>Boston.</i>
Mahon, Edward,	<i>Ottumwa, Ia.</i>
Mahony, Francis Ronan,	<i>Roxbury.</i>
Mansfield, Walter Ralph,	<i>Boston.</i>
Marshall, Stephen Tuttle,	<i>Boston.</i>
Mason, Nathaniel Robert, A.B. ( <i>Yale Univ.</i> ) 1897,	<i>No. Conway, N. H.</i>
Mayhew, Orland Smith,	<i>No. Tisbury.</i>
Mooring, Scott Webber,	<i>Gloucester.</i>
Morse, John Hinckley, A.B. ( <i>Bowdoin Coll.</i> ) 1897,	<i>Bath, Me.</i>
Moxom, Philip Wilfrid Travis,	<i>Springfield.</i>
Mulherin, William Anthony, A.B. ( <i>St. Joseph's Coll.</i> ) 1891,	<i>Augusta, Ga.</i>
Murphy, Fred Towsley, A.B. ( <i>Yale Univ.</i> ) 1897,	<i>Junction City, Kans.</i>
Myers, Edward Everett,	<i>Boston.</i>
Nolen, Walter Freeman,	<i>Tacoma, Wash.</i>
Ober, Ralph Beverley,	<i>Chicopee.</i>
O'Callaghan, Denis Timothy,	<i>Salem.</i>
O'Connell, Joseph Cyril,	<i>Wakefield.</i>
O'Day, George Frederick, A.B. ( <i>Holy Cross Coll.</i> ) 1896,	<i>Worcester.</i>
O'Donnell, James Coughlin, A.B. ( <i>Holy Cross Coll.</i> ) 1892,	<i>Boston.</i>
O'Shea, Richard Joseph, A.B. ( <i>Gonzaga Coll.</i> ) 1897,	<i>Spokane, Wash.</i>
Packard, Frederick Henry,	<i>Woburn.</i>
Parker, Harry Caldwell,	<i>Dubuque, Ia.</i>
Pond, Bernard Wesley, A.B. ( <i>Yale Univ.</i> ) 1897,	<i>Unionville, Conn.</i>

Porter, Robert Brastow, A.B. 1897,	Quincy.
Priest, Herbert Bancroft, A.B. 1897,	Littleton.
Putnam, Frank Wendell, B.S. ( <i>Tufts Coll.</i> ) 1897,	Charlestown.
Putnam, Ralph,	Chelsea.
Ramsey, Frank William,	Roxbury.
Raymond, Clarence Morse,	Somerville.
Reed, William Edward,	Saxonville.
Richmond, Fred Marcy,	Everett.
Robertson, Frederick McNaughton,	So. Framingham.
Robinson, Harry Pringle,	Plattsburgh, N. Y.
Robinson, Louis Sidney Bassford, A.B. 1897,	Chicago, Ill.
Sanborn, George Phippen,	Brookline.
Sanders, Nathan Edwin, A.B. ( <i>Iowa Coll.</i> ) 1893,	Grinnell, Ia.
Schallenbach, Ernest Bradford,	Dorchester.
Sever, James Warren,	Cambridge.
Shannon, James Herbert, A.B. 1897,	Cambridge.
Shead, Edward Wadsworth,	Eastport, Me.
Sherburne, Andrew Edward,	Roxbury.
Silva, Frank Rudolph, A.B. ( <i>Amherst Coll.</i> ) 1897,	So. Dennis.
Sise, Lincoln Fleetford, A.B. 1897,	Medford.
Sleeper, Frank Warren, A.B. ( <i>Brown Univ.</i> ) 1895, A.M. ( <i>Ibid.</i> ) 1896,	Franklin Falls, N. H.
Smith, Appleton White, B.A. ( <i>Colby Univ.</i> ), 1887,	Newton Centre.
Smith, Curtis Nye,	Newton.
Smith, Harold Wellington,	Dorchester.
Southard, Elmer Ernest, A.B. 1897,	So. Boston.
Spalding, Roger,	Cambridge.
Sullivan, Timothy Joseph,	W. Somerville.
Taylor, Frederick Leon, B.S. ( <i>Boston Univ.</i> ) 1890,	Brookline.
Thorndike, Townsend William,	Boston.
Tozier, Charles Herman,	Somerville.
Underhill, Samuel Graham,	Somerville.
Walker, Wallis Dunlap, A.B. 1897,	Portsmouth, N. H.
Walling, Charles Harold, B.P. ( <i>Brown Univ.</i> ) 1895,	Providence, R. I.
Waterman, John Slater,	E. Greenwich, R. I.
Webster, Fred Patterson,	Charlestown.
Webster, Samuel Herbert,	E. Boston.
Wennerberg, James Bernard, A.B. ( <i>Boston Coll.</i> ) 1897,	Boston.
Wheeler, Stuart Wadsworth,	Philadelphia, Pa.

Williams, Allen Hamilton, A.B. 1891,	<i>Fort Wayne, Ind.</i>
Winchester, George Wesley,	<i>Boston.</i>
Wingersky, Abraham Samuel,	<i>Boston.</i>
Woese, Alfred Millard,	<i>Syracuse, N. Y.</i>
Wood, Nathaniel Knight, A.B. 1897,	<i>Somerville.</i>

## SUMMARY.

IN COURSES FOR GRADUATES, 1897-98 (to Nov. 1) . . . . .	19
FOURTH CLASS . . . . .	117
THIRD CLASS . . . . .	119
SECOND CLASS . . . . .	148
FIRST CLASS . . . . .	160
<b>TOTAL . . . . .</b>	<b>563</b>

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IN Courses for Graduates 1896-97 after publication of Catalogue for 1896-97 . . . . .	47
IN Summer Courses, 1897 . . . . .	110

## THE MEDICAL SCHOOL.

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### REQUIREMENTS FOR ADMISSION.

All candidates for admission must (with the exceptions hereinafter stated) pass examinations in the following subjects:—

1. English.	4. Chemistry.
2. Latin.	5. Either French or German.
3. Physics.	6. Either Algebra, Plane Geometry, or Botany.

**ENGLISH.** The candidate will be required to write a short composition on one of several subjects announced at the time of the examination. In 1898 the subjects will be drawn from one or more of the following works:

Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *Vision of Sir Launfal*; Hawthorne's *House of the Seven Gable's*.

Every candidate is expected to have read intelligently all the books prescribed. The English written by a candidate in any of his examination books will be regarded as part of his examination in English in case the evidence afforded by the examination book in English is insufficient. The candidate will also be required to correct specimens of bad English.

**LATIN.** The translation at sight of simple Latin prose.

**PHYSICS.** Either (1) Gage's *Elements of Physics*, or (2) a course of experiments, not less than forty in number, performed at school by the student. These must be selected from a list issued by the University under the title, "A Descriptive List of Elementary Physical Experiments," or must be approved by the department of Physics of Harvard College as the equivalent of those contained in this list. In (2) the written examination will test the candidate's knowledge of experiments and experimenting as well as his knowledge of principles and results. The candidate will be required to hand in the original note-book in which he recorded the steps and results of the experiments which he performed at school, and this note-book must bear the endorsement of his teacher, certifying that the notes are a true record of the pupil's work. The note-book in Physics should contain an index of the exercises which it describes.

**CHEMISTRY.** Theoretical and Descriptive (Inorganic) Chemistry and Qualitative Analysis.

Each candidate will be required to hand in, at the hour of the written examination in Chemistry, the original note-book in which he recorded the work performed by him at school in qualitative analysis. This note-book must give evidence that the student has had practice in the analysis of solutions and solids containing several salts and must bear the endorsement of his teacher, certifying that the notes are a true record of the pupil's laboratory work.

**FRENCH AND GERMAN.** The translation at sight of ordinary easy prose is the chief feature of these examinations.

**ALGEBRA, PLANE GEOMETRY, AND BOTANY.** The examination in Algebra will extend through quadratic equations.

The examinations in Plane Geometry and Botany will be elementary.

A certificate of having passed the entrance examinations will admit a student to this school only so long as the entrance requirements remain unchanged.

When a candidate shall give evidence of having passed a satisfactory examination in any of the above requirements either at Harvard College or at the Lawrence Scientific School, a subsequent examination in such subject or subjects will not be demanded for his admission to the Medical School.

Candidates who present a degree in Letters, Science, or Medicine, from a recognized college or scientific school are exempt from all the above examinations, with the exception of Chemistry.\*

Candidates, may be admitted conditionally in spite of deficiencies in some of these studies; but, until these conditions are made up, no student will be permitted to take part in any exercises of the third class, or to present himself for examination in the subjects of that class.

Applicants for admission to the Medical School who have studied three years in recognized colleges, technical or scientific schools, in which courses in Anatomy, Physiology, Histology, and General Chemistry are a part of the instruction, may be admitted to advanced standing provided they pass an examination in these subjects.

Students conditioned in Chemistry at the examination for admission will be furnished, during the first year, with opportunities for making up this condition. A special fee of \$20 will be charged for this course.

\* The Summer Courses of Instruction in the fundamental principles of Chemistry and in Qualitative Analysis given at Harvard College, and the Summer Course in General Chemistry and Qualitative Analysis given at the Medical School, are adapted to students about to enter the Medical School.

The examinations will be held at the Medical School (688 Boylston St., Boston), and will be conducted in writing. Specimen examination papers will be found in the Medical School Catalogue.

In and after June, 1901, candidates for admission must present a degree in Arts, Literature, Philosophy, Science or Medicine from a recognized college or scientific school, with the exception of such persons, of suitable age and attainments, as may be admitted by a special vote of the Faculty in each case.

All candidates, whether presenting a degree or not, are required to satisfy the Faculty that they have had a course in Theoretical and Descriptive (Inorganic) Chemistry and Qualitative Analysis sufficient to fit them to pursue the courses in Chemistry given at the Medical School.

*The examinations for admission* are held on the Thursday following the last Wednesday in June, and on the Monday preceding the last Wednesday in September, as follows:—

9-10 A.M.	Latin.	12.45-1.45 P.M.	Chemistry.
10.15-11.15 A.M.	Physics.	2.45-3.45 P.M.	French or German.
11.30 A.M.-12.30 P.M.	English.	4-5 P.M.	Electives (Algebra, Botany, Geometry).

In 1898 the *examinations for admission* will ALSO be held at the following places, beginning at 9 A.M. on Thursday, June 30, at the same hours.

In *Quincy*, in the rooms of the Adams Academy; in *Andover*, in the rooms of the Phillips Academy; in *Groton*, in the rooms of Groton School; in *Southborough*, in the rooms of St. Mark's School; in *Worcester*, in Curtis Hall, the Young Men's Christian Association building, Elm Street; in *Exeter, N. H.*, in the rooms of Phillips Exeter Academy; in *Concord, N. H.*, in the rooms of St. Paul's School; in *Portland, Me.*, in the rooms of the Portland High School; in *Lakeville, Conn.*, in the rooms of the Hotchkiss School; in *New York, N. Y.*, in the lecture room of the Young Men's Christian Association, 23d Street, corner of Fourth Avenue; in *Garden City, N. Y.*, in the rooms of St. Paul's Cathedral School; in *Albany, N. Y.*, in the rooms of the Young Men's Christian Association; in *Buffalo, N. Y.*, in the High School building, corner of Court and Franklin Streets; in *Lawrenceville, N. J.*, in the rooms of the Lawrenceville School; in *Philadelphia, Pa.*, in the rooms of the Young Men's Christian Association building, corner of 15th and Chestnut Streets; in *Washington, D. C.*, in the rooms of the Young Men's Christian Association; in *Cleveland, O.*, in the Central High School building; in *Cincinnati, O.*, in the rooms of the Young Men's Christian Association; in *Chicago, Ill.*, in the Assembly Room of the Board of Education; in *Minneapolis, Minn.*, in the lecture-room of the Public Library building;

in *St. Louis, Mo.*, in the Board of Education building, corner of Ninth and Locust Streets; in *Omaha, Neb.*, in the rooms of the Young Men's Christian Association; in *Denver, Col.*, in the rooms of the Denver High School (District No. 1), corner of Nineteenth and Stout Streets; in *San Francisco, Cal.*, in the rooms of the Mechanics' Institute, 31 Post Street; in *Belmont, Cal.*, in the rooms of the Belmont School; in *Portland, Oregon*, in the Portland Library; in *Bonn, Germany*, at the Hotel Kley; in *Tokyo, Japan*.

### METHODS OF INSTRUCTION.

The following methods of instruction are adopted in the several departments:—

*Anatomy.*—Lectures; various practical exercises, including abundant dissection, under the direction of the Demonstrator; recitations and demonstrations. In the first year there is a recitation at the beginning of the week on the subject-matter of the lectures of the preceding week. The means and methods of illustrating the anatomical lectures are probably unrivalled in this country. The system of demonstrations to small sections has been greatly extended. In the second year much use is made of frozen sections and of the living model. In the fourth year two courses are offered. An elective one, in the dissecting room, by the Assistant Professor, who will furnish the details upon application; and a voluntary one by the Demonstrator, in practical anatomy, recitations and demonstrations.

*Histology and Embryology.*—Lectures and laboratory work. Every student is recommended to purchase a microscope, but microscopes are provided for those whose means do not enable them to buy one, for the sum of \$3 for each term. An elective course in embryology is given to fourth year students during the second term. Accommodations are furnished for those students who wish to pursue special or advanced courses. Special facilities are offered for original investigators. A special course in vertebrate embryology is given; this has been accepted by the Faculty of Arts and Sciences, and is open to students of the academic departments.

*Physiology.*—A systematic course of lectures with demonstrations, covers the subject of general physiology. A recitation once a week by the Professor of Physiology serves to emphasize the cardinal points in the lectures. A laboratory course is given in experimental physiology in which each student makes more than one hundred experiments, working out for himself the chief facts in the physiology of nerve and muscle, the action of the cardiac nerves, the functions of the main divisions of the central nervous system, etc., etc. During the second term, the entire

## DIVISION OF STUDIES.

FOR THE FIRST YEAR.	FOR THE SECOND YEAR.	FOR THE THIRD YEAR.	FOR THE FOURTH YEAR.	ELECTIVES.
<i>Anatomy.</i>	2	<i>Anatomy.</i>	2	<i>Clinical Medicine.</i> 3
<i>Pathology and Path. Anatomy.</i>	3	<i>Surgery.</i>	3	<i>Ophthalmology.</i> 2
<i>* Histol. &amp; Embryol.</i>	1	<i>Clinical Chemistry.</i> 2	<i>Obstetrics.</i>	<i>Otology.</i> 2
<i>Physiological Chemistry.</i>	1½	<i>Materia Medica and Therapeutics.</i> 2	3	<i>* Ophthalmology.</i> 1
<i>Bacteriology.</i>	1	<i>Theory and Practice.</i>	<i>* Ophthalmology.</i> 1	<i>Orthopaedics.</i> 2
		<i>Clinical Medicine.</i>	<i>* Otology.</i>	<i>Gynaecology.</i> 2
		<i>Surg. &amp; Clin. Surg.</i>	<i>Dermatology.</i>	<i>Dermatology.</i> 2
			<i>Neurology.</i>	<i>* Orthopedics.</i> 1
			<i>Gynaecology.</i>	<i>* Neurology.</i> 2
			<i>* Legal Medicine.</i>	<i>* Bacteriology.</i> 1
		<i>Mental Diseases.</i>	<i>* Syphilis.</i>	<i>Anatomy</i>
		<i>Clinical Medicine.</i>	<i>Hygiene.</i>	1
		<i>Clinical Surgery.</i>	<i>Clinical Microscopy.</i>	<i>Physiology.</i> 1
			<i>Genito-urinary Surg.</i>	<i>Chemistry.</i> 1
			<i>Ovarian Tumors.</i>	<i>Oper. Surgery.</i> 1
			<i>Mental Diseases.</i>	<i>* Oper. Obstetrics.</i> 1
			<i>Municipal Sanitation.</i>	<i>Clinical Microscopy.</i> 1
				<i>Cookery.</i>

NOTE:— Subjects in which an examination is required are in italics. The number following name of examination indicates the length in hours of the examination. In the Fourth year, electives must be chosen whose examinations shall aggregate three hours.

\* Examination in February.

class meets once a week in conference to discuss theses in physiology, prepared by members of the class from the original sources. This exercise has great value in emancipating the student from the text-book and accustoming him to form independent judgments. Properly qualified students are encouraged to make investigations in the laboratory and may there be trained in the principles of research.

*Chemistry* is taught mainly by practical work in the laboratory, each student having his own desk and apparatus. The first year, Physiological Chemistry is taught by lectures, recitations, and exercises in the laboratory, where each student is taught the chemistry of the carbohydrates, proteids and fats, the chemistry of digestion, and other physiological processes, the chemistry and microscopy of the urine and the tests for the important poisons. During the second year the instruction is chiefly clinical in character. The class is divided into small sections and each student thoroughly drilled in the diagnosis of kidney and other diseases from the examination of pathological urines obtained daily from the Hospitals. Practical instruction is also given to the class in sections in the clinical examination of the blood and gastric juice. During the second year also the students are taught the medico-legal examination of blood and other stains, the analysis of pathological concretions and fluids, and clinical toxicology.

*Pathology* is taught by lectures, recitations, and practical laboratory work, including instruction in making autopsies. The lectures are chiefly devoted to general pathology, including the various processes of disease, the general and special causes under which they are produced, and the effects which they exert on the functions of the body. The abundant collection of morbid specimens in the Warren Museum, and fresh material from autopsies, are used to illustrate the lectures. Demonstrations of fresh specimens, comprised largely of surgical material, are also given, and the relations of pathological conditions to the clinical phenomena of disease are dwelt upon. Instruction in pathological histology is given during the first half-year. In this course the finer changes in the tissues are studied and the steps in their production are explained. No attempt is made to cover the whole field, but attention is mainly directed to the general processes underlying the changes. Both in this course and in the demonstrations, the gross and microscopic diagnosis of tumors is studied. Each student receives sections of diseased organs, and is required to prepare them for microscopic examination, and to draw the changes he observes. The class, divided into sections, attend the autopsies at the Massachusetts General and City Hospitals, where practical instruction in making them is given, the students being required in certain cases to conduct them. The facilities of the pathological department have been greatly increased by the construction

of the new laboratories at the City and Massachusetts General Hospitals, where opportunity and every encouragement is given for research work. The department has an abundance of material at its disposal and every facility for its thorough study.

*Comparative Pathology.*—Instruction is given by means of lectures upon selected subjects. The laboratory is open from October to June to a limited number of qualified students for original research. Special attention will be paid for the present to problems in the comparative etiology of infectious diseases.

*Therapeutics and Materia Medica* are taught by lectures and recitations with exhibition of medicines and pharmaceutical processes and demonstrations of the physiological action of drugs. Besides the large and complete cabinet of *materia medica* in the Museum, a collection of official drugs and chemicals, and of all the important preparations is placed where it can be seen by the students at any time.

The lectures are supplemented by a course in practical pharmacy in which the compounding of prescriptions is illustrated.

In addition to the lectures on therapeutics, the practical relation of remedies to diseased conditions is also particularly dwelt upon in the exercises in the departments of Clinical Medicine and Theory and Practice.

*Experimental Pharmacology and Therapeutics.*—A special laboratory has been equipped for original research in these subjects. Here an opportunity is offered for practical training and instruction in the methods and use of the special apparatus employed in determining the toxic and physiological action of drugs and their practical value as remedies. This is open to a limited number of duly qualified undergraduates.

*The Theory and Practice of Medicine.*—At the Medical School lectures on selected subjects are given to the third class, and systematic recitations on the general subject are held for the second class. Clinical lectures on the practice of medicine are given to the third class, and demonstrations to the second class at the Massachusetts General Hospital.

*Clinical Medicine.*—Daily instruction is given in this department by clinical lectures, hospital visits, and other exercises. The teaching for the second, third and fourth years is graded and separate for each year, except that students of the fourth class are allowed to attend the clinical lectures given for the third class if they wish.

In the first half of the second year Auscultation and Percussion are taught in small divisions, each student having two exercises a week for four months. In the second half-year ward visits in the Massachusetts General and City Hospitals, also in small divisions, take the place of this. Opportunities are thus afforded all students to extend and to verify the knowledge already gained.

Throughout the year twice a week the class as a whole has clinical instruction in case-taking, diagnostic methods and diagnosis.

In the *third* year the teaching is more advanced, includes therapeutics, and comprises four clinical exercises a week in the amphitheatre and hospital wards. During the year, so large is the amount of material that a wide range of diseases is practically illustrated, and many even of the rarer affections are shown by several examples.

In the *fourth* year two clinics a week are held for the whole class, and special attention is given to Clinical Therapeutics.

A conference comes in this year. A case is assigned each student, who is required to work it up thoroughly and write out in full the history, physical examination, differential diagnosis and treatment. From these papers selections are made, and one is read weekly before the class and the teachers in the department. A full discussion is encouraged. It is also required that dispensary cases be taken by each student, who shall watch the cases, guide their treatment, and write brief reports upon them. This work is under the supervision of one of the assistants in the department.

In the second half-year full opportunity is afforded each student, the class being divided into sections of ten each for this purpose, to become practically familiar with diphtheria, scarlet fever, and measles, their diagnosis, course, and treatment. This exceptional opportunity is rendered possible by the opening of the new "South" or Contagious Department of the City Hospital, accommodating two hundred and fifty patients.

In the second half-year there is also a weekly exercise in diagnosis for the whole class. Several students are assigned a case at each exercise, report upon it and are criticised by the instructor in charge.

*Surgery.* — Instruction is given by systematic lectures, recitations, demonstrations at clinics, and laboratory exercises. In the *second* year, during the first term, there are two recitations a week at the Massachusetts General Hospital on Surgical Pathology, and in the second term there are two exercises a week in a laboratory course on this subject. This will include the healing of wounds and fractures, the diseases of the bones and joints, and special pathology, which is of surgical importance. In connection with this a series of clinical demonstrations are given at the Boston City Hospital, illustrating these lesions.

During the first term, exercises on the application of surgical apparatus and bandaging are given to the class, in sections, in the laboratory. The mechanical treatment of each variety of fracture is illustrated and the student himself applies the apparatus. The different forms of bandages, including all fixed protective dressings, in which silicate of potash, dextrine and plaster of Paris are employed, are applied by each student

under critical supervision. The apparatus used in the preparation of surgical dressings is explained in detail.

In the *third* year, during both terms, two systematic lectures a week are given at the Medical School, every fourth exercise being a recitation. One or two clinical demonstrations a week are given at the hospitals in connection with these lectures. Each student is required to make a written report upon a case of fracture which he personally examines and the treatment of which he follows until the patient is convalescent.

In the *fourth* year a course of systematic lectures is given on Ovarian tumors. Instruction is given in Orthopedic Surgery by lectures at The Children's Hospital and at the Medical School, with clinical quizzes to small sections. An elective course, with clinical exercises, is also given at The Children's Hospital.

Genito-urinary Surgery is taught by lectures at the Medical School and by clinical demonstrations at the Boston City Hospital.

Opportunity is given to see all kinds of surgical operations.

*Clinical Surgery.*—Instruction in Clinical Surgery is given at the Massachusetts General Hospital and City Hospital, to the third class, as follows:—

One clinical conference, two visits in the hospital wards, and two public operating days.

At the conference a student of the third class presents an elaborate and carefully prepared paper on a surgical case which has been assigned him in the hospital wards. This paper he is obliged to read in the amphitheatre of the Hospital before the whole class, and defend it from their criticism. At the close of the exercise the Professor of Clinical Surgery gives a résumé of the case and his opinions upon it. The students of the second class attend these exercises preparatory to their active participation in them in their third year. The written report of an additional case in Clinical Surgery is also required.

Daily clinics are given to the class in small sections in the out-patient department of the Massachusetts General Hospital and the City Hospital, in which the students are brought into personal contact with the patients, have practical exercises in the application of bandages and apparatus, and see a large number of cases of minor surgery, and fractures and dislocations above the waist.

The exercises for the fourth class consist of one hour throughout the year in surgical diagnosis at the bed-side; two clinical lecture each week during both terms one at the Massachusetts General Hospital and one at the Boston City Hospital; an evening visit in sections at the Massachusetts General Hospital Accident Room to see emergencies and accidents.

A course of two hours the first half of the year on surgical anatomy with special reference to its clinical application, and eight exercises in October on surgical land-marks, are given.

*Operative Surgery.*—A course illustrating all the classic and many of the modern operations in surgery is given by the Professor of Clinical Surgery to the third and fourth classes. As an elective for the fourth class these operations are repeated on the cadaver by the students under the direct supervision of the Professor and a corps of assistants.

*Obstetrics.*—Instruction in this department is given by lectures, recitations, conferences, and clinical teaching. Students are required to take charge of at least six cases of labor, to receive clinical instruction on at least one of them, to care for their patients during the convalescence, and to make full written reports of the cases. Many of these reports are read at the conferences and discussed by the class and the instructors. A course on operative obstetrics, with practical illustrations on the cadaver and manikin, is given during the first half-year.

*Gynaecology.*—Instruction in this department extends throughout the third and fourth years. During the third year there are lectures, recitations, and clinical instruction at the City Hospital and Boston Dispensary. The large out-patient departments of these institutions are utilized to accustom the student to the methods of examination, the perfection of diagnosis, and the simpler forms of treatment.

The instruction in the fourth year is more advanced. Clinical and operative instruction is given in the wards of the City Hospital. Cases are assigned to the students for personal examination, which are reported in full at the conference, and are discussed by members of the class and the instructors.

*Diseases of Children.*—The instruction in this department consists of a course of systematic and clinical lectures, recitations and conferences. Opportunities are also given for seeing special cases at the Boston Dispensary, where the students are required to examine the children and report their examinations in writing. During the months of October, November, December, and January the class receives instruction three times a week in the contagious wards of the City Hospital and each student is required to make a written report of the cases which he sees to the Professor.

*Ophthalmology.*—Instruction consists of lectures and clinical demonstration at the Massachusetts Charitable Eye and Ear Infirmary, and Boston City Hospital.

*Dermatology.*—A combined systematic and clinical course extending throughout the year is given to the third class. In the fourth year the instruction is clinical and elective. The special out-patient department at the Massachusetts General Hospital furnishes ample means for illustration.

*Syphilis.* — Lectures and clinical instruction are given at the Boston Dispensary.

*Otology.* — Lectures and clinical instruction are given at the Massachusetts Charitable Eye and Ear Infirmary, and at the Boston City Hospital.

*Diseases of the Throat and Nose.* — Instruction in this department consists of lectures, demonstrations, and training in the use of instruments. The class is divided into small sections, and the practical work is conducted in the clinics at the Massachusetts General Hospital, the Boston City Hospital, and the Boston Dispensary.

The class as a whole also has one lecture a week during the first half of the fourth year.

*Diseases of the Nervous System.* — During the third year a weekly lecture and during the second term two lectures a week will be given at the Massachusetts General Hospital, illustrated by cases from the large and excellent out-patient service, and from the medical and surgical wards of the hospital. In addition to this the students will be given opportunity of studying cases outside the lecture hours, and reporting upon them, and also of attending extra courses of lectures upon special pathology of the nervous system. In the fourth year, each student may have three hours of instruction a week, directed by the head of the department, and by three special clinical instructors, and during this course he will have access to the material furnished by the City Hospital as well as that afforded by the Massachusetts General Hospital.

Attention is also called to the fact that special instruction in the pathological anatomy of the nervous system is given during the second year.

*Mental Diseases.* — Systematic lectures are given at the Medical School during the second half-year to the third class. Clinical instruction during second term is given to the fourth class at Boston Insane Hospital, at Pierce and Austin Farms, and also at the New McLean Hospital at Waverley.

*Legal Medicine.* — Instruction consists in lectures and medico-legal demonstrations and extends through the first half of the fourth year.

*Hygiene.* — During the fourth year instruction consists in lectures and demonstrations.

*Bacteriology.* — The instruction in Bacteriology during the first year consists of lectures and practical laboratory work. The lectures treat of the general subject and of methods of practical work.

In the laboratory, each student becomes familiar with the simple methods of manipulation and staining which are of special clinical use. The elective course in the fourth year is mainly practical and opportunities for special investigation will be offered such students as can spend the necessary time in the laboratory.

*Clinical Microscopy.*—The instruction is given to the fourth class throughout the year, that during the second half covers the elective requirement. It is entirely practical in character covering the examination of specimens from autopsies, tumors, curettings, etc., with especial reference to their microscopic examination in the fresh condition.

*Warren Museum.*—The collection has about nine thousand specimens illustrating both normal and pathological anatomy and *materia medica*. These are placed in the hands of the student at any time during the day upon application to the Curator.

### TEXT-BOOKS.

The last edition of the following works are recommended as text-books, and for collateral reading and consultation:—

#### ANATOMY.

*Text-Books.*—Gray. Morris. Quain. Wilson. Holden's *Landmarks*. Dwight's *Frozen sections of a Child*. Treves' *Applied Anatomy*. Dexter's *Anatomy of the Peritoneum*.

*Collateral Reading.*—Harrison Allen's *Anatomy*. Testut, *Anatomie Humaine*. Tillaux, *Anatomie topographique*. Holden's *Osteology*. Humphry's *Human Skeleton*. Morris, *on the Joints*. Weisse's *Practical Human Anatomy*. McClellan's *Regional Anatomy*.

#### HISTOLOGY AND EMBRYOLOGY.

*Text-Books.*—Stöhr's *Manual of Histology*, Piersol's *Histology*, or Schaefer's *Essentials of Histology*.

*Collateral Reading.*—Quain's *Anatomy*. Lee's *microscopist's Vademecum*, Schiefferdecker and Kossel's *Gewebelehre*. Minot's *Human Embryology*. Marshall's *Vertebrate Embryology*.

#### PHYSIOLOGY.

*Text-Books.*—Foster's *Text-book of Physiology*. American *Text-book of Physiology*. Waller, *Human Physiology*.

*Collateral Reading.*—Hermann's *Lehrbuch der Physiologie*. Kirke's *Handbook of Physiology*. Fick, *Compendium der Physiologie*. Halliburton's *Text-book of Chemical Physiology and Pathology*. McGregor-Robertson's *Elements of Physiological Physics*. Landois' *Manual of Human Physiology*. Stirling's *Practical Physiology*. Gamgee, *Physiological Chemistry of the Animal Body*.

#### CHEMISTRY.

*Text-Books.*—Tyson, *Practical Examination of Urine*. Wharton and Stillé's *Medical Jurisprudence*, Vol. II., *on Poisons*.

*Collateral Reading.*—Ultzmann and Hoffmann's *Atlas der Harnsedimente*. Roberts' *Urinary and Renal Diseases*. Purdy's *Practical Ura-*

nalysis and Urinary Diagnosis. Taylor on Poisons. Wormley's Micro-Chemistry of Poisons. Halliburton's Essentials of Chemical Physiology. Lea's Chemical Basis of the Animal Body (appendix to Foster's Text-book of Physiology). Hammarsten's Physiological Chemistry. Vaughan and Novy's Ptomaines and Leucomaines.

#### HYGIENE.

*Text-Book.* — Wilson's Handbook of Hygiene.

#### BACTERIOLOGY.

*Text-Books.* — Abbott. MacFarland.

*Collateral Reading.* — Sternberg. Heim.

#### THERAPEUTICS AND MATERIA MEDICA.

*Text-Books.* — Hare's Practical Therapeutics. White's *Materia Medica* and Therapeutics. National Dispensatory.

*Collateral Reading.* — H. C. Wood's Therapeutics. Brunton's Pharmacology, Therapeutics, and *Materia Medica*.

#### PATHOLOGY AND PATHOLOGICAL ANATOMY.

*Text-Books.* — Ziegler's General and Special Pathology. Mallory and Wright, Pathological Technique.

*Collateral Reading.* — Bouchard, *Pathologie Générale*. Cohnheim's Lectures on General Pathology.

#### OBSTETRICS.

*Text-Books.* — Lusk's Manual of Midwifery.

*Collateral Reading.* — Reynold's Practical Midwifery. Schroeder's Manual of Midwifery. Winckel's Diseases of Childbed. Schauta's Grundriss der operativen Geburtshilfe. Kucher's Puerperal Convalescence.

#### THEORY AND PRACTICE.

*Text-Books.* — Wood and Fitz, Practice of Medicine. Osler's Practice of Medicine. Tyson's Practice of Medicine. Strümpell's Text-Book of Medicine. Pepper's Text-Book of the Theory and Practice of Medicine by American Teachers.

*Collateral Reading.* — Pepper's System of Practical Medicine by American authors. Loomis-Thompson, American System of Practical Medicine. Eulenburg's Real-Encyclopädie der gesammten Heilkunde.

#### CLINICAL MEDICINE.

*Text-Books.* — Osler's Practice of Medicine. Tyson's Practice of Medicine. Strümpell's Text-Book of Medicine. Wood and Fitz, Practice of Medicine. Musser's Medical Diagnosis. Flint's Manual of Percussion and Auscultation. Tyson's Physical Diagnosis.

*Collateral Reading.* — Pepper's System of Practical Medicine by American Authors. Twentieth Century Practice of Medicine. Fagge and Pye-Smith's Practice of Medicine. Gowers's Diseases of the Nervous System.

#### SURGERY.

*Text-Books.* — An American Text-Book of Surgery. Warren's Surgical Pathology.

*Collateral Reading.* — Cheever's Lectures on Surgery. Dennis' System of Surgery. Roswell Park's Surgery. Greig Smith's Abdominal Surgery. Stephen Smith's Operative Surgery. Morrow's System of Genito-Urinary Diseases. Treve's Manual of Operative Surgery. DaCosta's Manual of Modern Surgery.

#### GYNAECOLOGY.

*Text-Books.* — Garrigues' Diseases of Women.

*Collateral Reading.* — Keating and Coe's Clinical Gynaecology. Thomas and Mundé's Diseases of Women. Skene's Diseases of Women. Davenport on Diseases of Women. Pozzi's Treatise on Gynaecology (American edition). Winckel's Diseases of Women. Emmet's Principles and Practice.

#### PEDIATRICS.

*Text-Book.* — Rotch's Pediatrics.

*Collateral Reading.* — Keating's Cyclopaedia of the Diseases of Children. Northrup's American Edition of The Diseases of Children by Ashby and Wright. Jacobi's Therapeutics of Infancy and Childhood. Holt's Diseases of Infancy and Childhood.

#### OPHTHALMOLOGY.

*Text-Books.* — Schweinitz, Fuchs, Swanzey, Williams.

*Collateral reading.* — Loring, on the Ophthalmoscope. Landolt, on Refraction and Accommodation. Noyes. Norris and Oliver.

#### OTOTOLOGY.

*Text-Books.* — Politzer, by Dalby. Hovell, Diseases of the Ear and Naso-Pharynx and Ear.

*Collateral Reading.* — Schwartz, Handbuch der Ohrenheilkunde. Buck's Manual of Diseases of the Ear.

#### DERMATOLOGY.

*Collateral Reading.* — Duhring, Hyde, Robinson, Crocker, Kaposi, v. Ziemssen, Besnier, Van Harlingen, Jackson, Taylor.

#### NEUROLOGY.

*Text-Books.* — Gowers' Diseases of the Nervous System. Dana's Text-Book of Nervous Diseases. Gray's Mental and Nervous Diseases. Herter's Manual of Diagnosis of Nervous Diseases. Sach's Nervous Diseases of Children.

## MENTAL DISEASES.

*Text-Books.* — Clouston. Folsom's Monograph in Peppers System of Medicine.

*Collateral Reading.* — J. Bevan Lewis. Spitzka. Tuke's Dictionary of Psychiatric Medicine.

## LEGAL MEDICINE.

*Text-Books.* — Taylor's Manual of Medical Jurisprudence.

*Collateral Reading.* — Witthaus and Becker.

## CLINICAL MICROSCOPY.

Simon's Manual of Clinical Diagnosis.

## INSTRUCTION FOR 1897-98.

## Anatomy.

Anatomy. (*First year.*) *Four times a week till Christmas. Three times a week in January.* Professor DWIGHT. *Twice a week after November.* Assistant Professor DEXTER. Recitations. *Once a week.* Dr. TENNEY.

Practical Anatomy, with exercises in Dissection. *Eight hours daily from October 15th till May, in sections.* Demonstrations. Drs. BROOKS, TENNEY, LUND, J. B. BLAKE, LOTHROP, and WARREN.

Anatomy. (*Second year.*) *Twice a week till Christmas.* Assistant Professor DEXTER, and *three times a week in second term.* Professor DWIGHT.

Anatomy. (*Fourth year.*) An elective course. *After December.* Asst. Professor DEXTER. Voluntary Practical Course. *Twice a week during February and March.* Dr. BROOKS.

## Histology and Embryology.

Histology. — Lectures. *Twice a week during the first half-year.* Professor MINOT. Laboratory exercises. *Twice a week during the first half-year.* Professor MINOT, Drs. QUINCY, SCHAPER, GREGORY, and AMES.

Embryology. — Lectures. *Once a week during the second half-year.* Professor MINOT. Laboratory exercises. *Twice a week during the second half-year.* Professor MINOT, Drs. QUINCY, SCHAPER, GREGORY, and AMES.

Advanced Embryology. Fourth year elective. Lectures and laboratory exercises. *During second half-year.* Professor MINOT and Dr. SCHAPER.

### Bacteriology.

*Eighteen lectures in second half-year. Asst. Professor ERNST.*

*Practical laboratory work. Eighteen hours for each student in the second half-year. Professor ERNST.*

*Advanced Bacteriology. Fourth year elective. Lectures and laboratory work. Six times a week during first term.*

### Physiology.

*Systematic and Experimental Physiology. Four times a week during first half-year. Six times a week during second half-year. Professors BOWDITCH and W. T. PORTER.*

*Laboratory exercises in Experimental Physiology. Three times a week in sections. Assistant Professor PORTER.*

*Advanced Physiology. Fourth year elective. Twice a week. Professors BOWDITCH and PORTER.*

### Chemistry.

*Physiological Chemistry. Once a week during the first half-year. Twice a week during second half-year. Professor HILLS.*

*Clinical Chemistry. Twice a week. Professor WOOD.*

*Advanced Chemistry. Fourth year elective. Twice a week. Professor WOOD.*

*Practical exercises in the laboratory. Daily. Professors WOOD and HILLS, and Drs. OGDEN, HEWES, and EWALD.*

### Hygiene.

*Fourth Year Lectures. Twice a week during second half-year. Dr. HARRINGTON.*

### Therapeutics and Materia Medica.

*Lectures and recitations. Twice a week. Dr. HARRINGTON.*

*Demonstrations. Eight. Dr. PFAFF.*

*Voluntary laboratory work. Dr. HARRINGTON and Mr. JORDAN.*

### Pathology and Pathological Anatomy.

*General Pathology and Pathological Anatomy. Twice a week. Professor COUNCILMAN.*

*Special Pathological Anatomy, with demonstrations and recitations. Twice a week. Professor COUNCILMAN and Asst. Professor MALLORY.*

*Laboratory exercises in Pathological Histology. Twice a week. Professor COUNCILMAN and Asst. Professor MALLORY, and Drs. WRIGHT, NICHOLS, WENTWORTH and FROTHINGHAM.*

*Practical instruction in performing Autopsies. Throughout the year. Asst. Professor MALLORY, and Dr. WRIGHT.*

### Surgery.

#### SECOND YEAR.

Application of bandages and apparatus and laboratory exercises to the class in sections. *During the first term.* Drs. MUNRO and PORTER.

Recitations in Surgical Pathology. *Twice a week during the first term.* Dr. C. A. PORTER.

Laboratory course in Surgical Pathology, and occasional clinical demonstrations at the Hospitals. *Twice a week during the second term.* Asst. Professor BURRELL and Dr. NICHOLS.

#### THIRD YEAR.

Lectures and recitations. *Three times a week at the School and at the Hospitals throughout the year.* Professor WARREN and Asst. Professor BURRELL.

### Orthopedic Surgery.

Required Course. Lectures. *Once a week for four months.* Medical School and Children's Hospital.

Clinical quizzes. *Three times a week in sections.*

Elective Course. Clinical exercises. *Three times a week for four months.*

### Clinical Surgery.

#### THIRD CLASS.

Clinical Surgery Conference. *Once a week, from October till May.* Professor PORTER.

Clinical visits, *in sections of half the class, once a week throughout the year,* at the Massachusetts General Hospital. *During first half-year* by Professors PORTER, WARREN and Dr. BEACH. *During second half-year* by Assistant Professor M. H. RICHARDSON, and Drs. HOMANS and CABOT. — At the Boston City Hospital, by Assistant Professor BURRELL, and Drs. GAY, BOLLES, POST, GAVIN, WATSON, and MONKS.

*In small sections daily* in the Out-Patient Departments of the Massachusetts General Hospital, by Drs. CONANT, SCUDDER, and MUMFORD. —

At Boston City Hospital, by Drs. LOVETT, MUNRO, THORNDIKE, and E. W. DWIGHT.

#### FOURTH CLASS.

Lectures. *Twice a week.* Massachusetts General Hospital. *Once a week till February,* Professor PORTER. *February to June,* Asst. Professor M. H. RICHARDSON. Boston City Hospital. *Once a week till December,* Dr. GAY. *December till June,* Asst. Professor BURRELL. Visits. *Twice a week.* Operations. *Twice a week.* Surgical Diagnosis. *Once a week.* Surgical Emergencies. *Every evening in small sections.*

## OPERATIVE SURGERY.

Operations are performed before the students one day each week throughout the year in the Amphitheatres at the Massachusetts General Hospital and Boston City Hospital.

Operative Surgery and Surgical Anatomy. *Exercises illustrated upon the cadaver twice a week in November and December.* Professor PORTER.

Operative Surgery. *Fifteen practical exercises by the students of the Fourth Class,* under the direction of Professor PORTER, assisted by Drs. MIXTER, MONKS, CONANT, and SCUDDER.

The surgical easies at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

## Dermatology.

## THIRD CLASS.

Lectures on diseases of the Skin. *Once a week.* Professor WHITE.

Clinical Dermatology. *Once a week.* Professor WHITE.

## FOURTH CLASS.

Clinical Dermatology. *Twice a week.* Dr. BOWEN.

## Syphilis.

*Twice a week.* Dr. POST.

## Theory and Practice of Physic.

## SECOND CLASS.

Recitations or demonstrations. *Twice a week.* Dr. CUTLER.

## THIRD CLASS.

Lectures on selected subjects. *Twice a week.* Professor FITZ. Clinical lectures. *Twice a week.* Professor FITZ.

## Clinical Medicine.

## SECOND CLASS.

Clinic. *Once a week.* Dr. VICKERY. *Once a week.* Dr. WITHERINGTON.

Practical Instruction in Auscultation and Percussion. *Six times a week during the first half-year.* Drs. GANNETT, V. Y. BOWDITCH, SEARS, and KNIGHT. *During the second half-year at the bed side in the wards.* Professor MASON, and Drs. GANNETT, VICKERY, WITHERINGTON, BOWDITCH, and MORSE.

## THIRD CLASS.

*Twice a week.* Professor SHATTUCK. *Twice a week.* Professor MASON.

Medicinal visits are made at the City Hospital with Professor MASON and Drs. J. G. BLAKE, G. B. SHATTUCK, FOLSOM, WITHERINGTON, and BOWDITCH.

## FOURTH CLASS.

Clinic with special reference to Therapeutics. *Once a week.* Professor SHATTUCK. *Once a week.* Professor MASON.

Clinical Conference. *Once a week.* Dispensary cases. *In the second half-year.* Infectious Diseases and Practical Diagnosis.

## Neurology.

Clinical Instruction. Third Class. *Once a week, first term.* *Twice a week, second term.* Professor PUTNAM. Fourth Class. *Three times a week.* Professor PUTNAM, and Drs. WALTON, KNAPP, and PRINCE.

## Psychiatry.

Lectures. Third Class. *Once a week during second half-year.* Dr. FISHER.

Clinical Instruction. Fourth Class. *Once a week during second half-year.* Drs. FISHER and COWLES.

## Pediatrics.

Lectures. *Once a week.* Professor ROTCH.

Clinical exercises. *Twice a week.* Professor ROTCH and Drs. BUCKINGHAM, WENTWORTH and CRAIGIN.

Clinical Conference. *Once a week in the second half-year.* Professor ROTCH and Drs. BUCKINGHAM, WENTWORTH and CRAIGIN.

## Obstetrics.

Theory and Practice of Obstetrics. *Twice a week.* Professor WM. L. RICHARDSON. Recitations. *Once a week.* Dr. REYNOLDS.

Operative Obstetrics. *Twelve practical exercises.* Asst. Professor C. M. GREEN.

Practical Instruction in Clinical Obstetrics. *Throughout the year.* Asst. Professor C. M. GREEN and Drs. REYNOLDS, HIGGINS, and NEWELL.

Obstetrical Conference. *Once a week.* Professor WM. L. RICHARDSON and Asst. Professor C. M. GREEN, and Drs. REYNOLDS, HIGGINS, and NEWELL.

Clinical Obstetrics. *Twice a week for five months.* Professor WM. L. RICHARDSON and Asst. Professor C. M. GREEN.

Operative Obstetrics. *Practical exercises.* Drs. REYNOLDS, HIGGINS, and NEWELL.

## Gynaecology.

## THIRD CLASS.

Lecture or recitation. *Twice a week during first half-year.* Asst. Professor DAVENPORT.

Clinical exercises. *Six times a week till April, then three times a week.* Drs. HAVEN, SWIFT, and REYNOLDS.

## FOURTH CLASS.

Clinical and Operative exercises. *Twice a week.* Asst. Professor C. M. GREEN.

Clinical Conference. *Once a week during the second half-year.* Asst. Professor C. M. GREEN.

## Ovarian Tumors.

Lectures. *Once a week for six weeks.* Dr. HOMANS.

## Ophthalmology.

Lectures. *Once a week during first half-year.* Professor WADSWORTH. Clinical exercises. *Eight times a week during the first half-year.* Professor WADSWORTH and Drs. STANDISH, CHENEY and JACK. *Four times a week during second half-year.* Professor WADSWORTH.

## Otology.

*Three times a week during first half-year.* Professors C. J. BLAKE and J. O. GREEN.

*Six Clinical exercises a week during second half-year.* Professors C. J. BLAKE, J. O. GREEN, and Drs. CROCKETT and HAMMOND.

## Diseases of the Throat and Nose.

*Three practical exercises and one lecture a week.* Drs. DEBLOIS, FARLOW, and COOLIDGE.

## Orthopedics.

*Lectures during first half-year.* Clinical exercises. *Twice a week during second half-year.* Asst. Professor BRADFORD.

## Diseases of the Genito-Urinary Apparatus.

*Once a week.* Drs. WATSON and THORNDIKE.

## Legal Medicine.

*Three times a week during the first half-year.* Professor DRAPER.

## Municipal Sanitation.

*Once a week during second half-year.* Dr. DURGIN.

## Clinical Microscopy.

Laboratory. *Three times a week.* Dr. WHITNEY.

## Cookery.

*Twice a week (two hours) for one month.* Boston Cooking School.

## Museum.

*Open daily during the year.* Dr. WHITNEY.

## CLINICAL ADVANTAGES.

The Medical Department of the University is established in Boston, in order to secure those advantages for Clinical Instruction and for the study of Practical Anatomy which are found only in large cities.

There are Hospital visits or operations daily.

*The Massachusetts General Hospital.* — During the past year, between three and four thousand patients were treated in the wards, and nearly thirty thousand in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week. Operations are numerous, and are performed in the amphitheatre, which is provided with seats for 400 persons. Clinics in the following special branches have been established in connection with the out-patient department: Dermatology, Laryngology, Diseases of the Nervous System, and Ophthalmology. The Dalton scholarship of \$500 is open to the house pupils.

*The City Hospital.* — During the past year, 7956 cases were treated in its wards, and 17,740 in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. The opportunities for seeing fractures, injuries, and traumatic cases of all kinds are excellent, since, on an average, 800 street accidents are yearly treated. Surgical operations are performed in the amphitheatre. There are special services for diseases of women, of the eye, the ear, the skin, the nose and throat, and also diseases of women and of the nervous system are largely treated in the out-patient department. Clinical instruction is given by the physicians and surgeons two or more times a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

*The Boston Lying-in Hospital.* — More than five hundred patients are annually confined in the Hospital. In the out-patient department, over fifteen hundred cases are annually attended by the hospital externes who are appointed from the third and fourth year students. Clinical instruction is given in these cases by the physicians to out-patients and the House Physicians.

*The Boston Dispensary.* — Over forty thousand patients were treated at this Public Charity during the past year. A new building has lately been erected at a cost of \$50,000, where students have ample and excel-

lent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of medicine and surgery.

*Children's Hospital.* — During the past year more than seven hundred cases were treated in the wards and about seventy-six hundred in the out-patient departments. Instruction in orthopedic surgery and in the general diseases of children is given by members of the hospital staff.

*The Massachusetts Charitable Eye and Ear Infirmary.* — 22,101 patients were treated at this institution during the last year. These cases present every variety of disease of the ear and eye, and supply a large number of operations.

*The Marine Hospital at Chelsea* receives from the shipping of the port a large number of patients, who furnish examples of the diseases of foreign countries and of distant parts of the United States. Many cases of venereal disease, in its various forms, are treated annually.

Students are also permitted to visit the Free Hospital for Women and the Carney Hospital on application to the physicians on duty.

There are more than sixty appointments annually for Internes in the various hospitals, and nearly as many more for Assistants in the out-patient departments. Appointments for the Massachusetts General and City Hospitals are for the term of eighteen months, for the Boston Lying-in Hospital for six months, and for the Free Hospital for Women for nine months.

### EXAMINATIONS.

The final examination in every required subject is held at the close of either the first or the second term of the school year. The examination, therefore, in every subject occurs once a year, but an opportunity to make up failures in examinations will be offered at the opening of the school year. The *June examination* is for those only who are members of the School at the time and for those entitled to apply for the degree. The *September examination* is for graduates and for those only who have previously been examined and have failed in the subject of the examination or who are applicants for advanced standing. In some branches a portion of the examination consists of practical work in the laboratory.

*First Year.* — Anatomy (2 hrs.), Physiology (3 hrs.), Histology\* (1 hr.), Physiological Chemistry (1½ hr.), Bacteriology (1 hr.).

*Second Year.* — Anatomy (2 hrs.), Pathological Anatomy (3 hrs.), Clinical Chemistry (2 hrs.), Materia Medica and Therapeutics (2 hrs.).

*Third Year.* — Theory and Practice (3 hrs.), Surgery (3 hrs.), Obstetrics (3 hrs.), Pediatrics (2 hrs.), Dermatology (1 hr.), Neurology (1 hr.), Gynaecology (1 hr.), Mental Diseases (1 hr.).

\* The examination in this subject will be held at the end of the first half-year.

*Fourth Year.*—Clinical Medicine (3 hrs.), Clinical Surgery (2 hrs.), Orthopedics † (1 hr.), Ophthalmology † (1 hr.), Otology † (1 hr.), Laryngology † (1 hr.), Legal Medicine † (1 hr.), Syphilis † (1 hr.), Hygiene (1 hr.).

*Electives.*—Gynaecology (2 hrs.), Dermatology (2 hrs.), Neurology (2 hrs.), Ophthalmology (2 hrs.), Otology (2 hrs.), Orthopedic Surgery (2 hrs.), Physiology (1 hr.), Chemistry (1 hr.), Operative Surgery (1 hr.), Operative Obstetrics † (1 hr.), Bacteriology † (1 hr.), Anatomy (1 hr.), Embryology (1 hr.), Clinical Microscopy (1 hr.).

In addition to the above examinations each student is required to present a satisfactory report of the analysis of a specimen of urine, to examine and report upon two clinical cases in Surgery, a case of fracture and four cases in Medicine, and to take charge of and report upon six cases in Obstetrics, one case in Orthopedics (elective), one case in Ophthalmology (elective); each student must also have dissected the three parts of the body to the satisfaction of the Demonstrator, and no student shall be admitted to the examination on Anatomy at the end of the first year who has not so dissected two parts, nor to that at the end of the second year who has not so dissected three parts, unless excused by the Professor of Anatomy.

In the fourth year, three hours of examination in electives are obligatory. *The choice of electives must be made within two weeks of registration at the beginning of the year, and must be given to the Secretary in writing.*

The general elective courses are open to all members of the fourth class who elect them with the intention of taking the examination.

Students electing Ophthalmology, Otology, or Orthopedics in the fourth year are obliged to pass only the two-hours examination in these subjects at the end of the year. Only one hour of these two can count as an elective.

Candidates for the degree who shall have served satisfactorily as internes in the Massachusetts General Hospital, Boston City Hospital, Carney Hospital, Children's Hospital, and State Almshouse Hospital, for a period of not less than one year, may be exempt from examination in the electives of the fourth year.

No student is allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty.

After two failures to pass in any subject a charge of \$3 will be made for each subsequent examination in that subject.

† The examinations in these subjects will be held at the end of the first half-year.

### DIVISION OF STUDENTS.

Students are divided into four classes, according to their time of study and proficiency. Students who began their professional studies in other recognized Medical Schools may be admitted to advanced standing; but all persons who apply for admission to the advanced classes must pass examinations in the branches already pursued by the class to which they seek admission, and furnish a satisfactory certificate of time spent in medical studies. No student may advance with his class, or be admitted to advanced standing, until he has passed the required examinations in the studies of the previous year, or a majority of them; nor may he become a member of the third class, until he has passed all the examinations of the first, including admission examinations, and in addition a majority of those of the second year; nor of the fourth class, until he has passed all of the examinations of the first and second, in addition to a majority of those of the third year. *No student will be permitted to take part in any exercise of the third year unless he is clear of all entrance conditions.*

*No student will be permitted to continue his membership in the School if at the beginning of his second year he has passed none of the first year examinations.*

*In order that the time of study shall count as a full year, students of all classes must present themselves within the first week of the School year and register their names with the Secretary.*

Any student may obtain a certificate of his period of connection with the School.

### LIBRARIES.

The students have access, free of charge, to the books belonging to the library of the School in the several departments.

The College Library at Cambridge is open to the students of the Medical School.

The Boston Public Library, which contains a large collection of medical books, is open to students who are inhabitants of Boston. Students, not inhabitants of Boston, who have filed a bond at the Bursar's office, or deposited with the Bursar the sum of fifty dollars, may also use this library. The Bursar will furnish on application the necessary certificate of bond or deposit.

### REQUIREMENTS FOR A DEGREE.

Every candidate must be twenty-one years of age, and of good moral character; must give evidence of having studied in a recognized Medical School at least four full years; have spent at least one continuous year at this School; and have passed the required examinations.

At the end of the four years of study the degree of Doctor of Medicine will be given to those students who have fulfilled its requirements. This degree *cum laude* will be given to candidates who have obtained an average of over seventy-five per cent in all the required examinations.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before May 30 of the year in which they propose to graduate.

The presentation of a thesis is not a requirement for graduation, but candidates for the degree of M.D. may present a voluntary thesis. If of conspicuous merit, it will receive honorable mention; if also of a suitable character, it may be read at the University Commencement exercises. Theses must be completed and delivered to the Dean on or before the first day of June.

The degree of Master of Arts is open to graduates of the School who are also Bachelors of Arts of Harvard College, and to Bachelors of Arts of other Colleges who shall be recommended by the Faculty of Arts and Sciences of Harvard College. Candidates must pursue an approved course of study in Medicine for at least one year after taking the degree of Doctor of Medicine. Applications for approval of course of study offered for this degree must be made to the Administrative Board of the Graduate School on or before the *thirtieth day of April*. It is advisable to apply to the Board *early in the year*.

A graduate of another medical school of recognized standing may obtain the degree of M.D. at this University, after a year's study in the graduates' course and after passing all examinations required in the full undergraduate course, which may be taken only at the times set for the regular examinations in September, February (mid-year) and June.

### ANATOMICAL PRIZE.

Professor C. B. PORTER offers a prize of fifty dollars, open to all students, and graduates of not more than five years' standing, except teachers of anatomy, for the best dissection deserving the award illustrative of surgical anatomy, the specimen to be presented to the Museum.

**OTOLOGY PRIZE.**

For the best preparation illustrating the osseous anatomy of the ear or for the best thesis showing original work on an otological subject, a prize of twenty-five dollars is offered, open to fourth-year students.

**OTHER PRIZES.**

The Bowdoin, Dante, Toppan and Sumner Prizes offered by the Faculty of Arts and Sciences, are open to students in all departments of the University. Full particulars in regard to these prizes may be found on pages 175-182 of the University Catalogue, 1896-97.

**PECUNIARY AID.****FELLOWSHIPS.**

**BULLARD FELLOWSHIPS.** In 1891, Mr. William S. Bullard gave the sum of fifteen thousand dollars for the establishment of three fellowships of five thousand dollars each "in memory of three physicians who were distinguished for their honorable personal character and for their professional services in this community." Accordingly the three following fellowships were established with a yearly income of \$225 each: —

THE GEORGE CHEYNE SHATTUCK MEMORIAL FELLOWSHIP.

THE JOHN WARE MEMORIAL FELLOWSHIP.

THE CHARLES ELIOT WARE MEMORIAL FELLOWSHIP.

The income from any one or all of these fellowships may be paid to any student or member of the medical profession who shall be selected by the Faculty of the Medical School to make such original investigations in Medical Science, as in their opinion will be most useful to the profession and to the community.

Holders of Bullard Fellowships are required to do an amount of work equivalent to not less than ten hours per week throughout the academic year and to present to the Committee at the end of the academic year a report on the amount and result of the work performed.

**SCHOLARSHIPS.**

The Cheever Scholarship is awarded to a student of the first year class. The Hayden Scholarship may be so awarded. All the other Scholarships are awarded to members of the three upper classes.

**BARRINGER SCHOLARSHIPS.** Two, known as the Edward M. Barringer Scholarship No. 1, and the Edward M. Barringer Scholarship No. 2, and having a yearly income of \$300 and \$200 respectively, from a bequest of Edward M. Barringer will be awarded to deserving students, preferably those of the fourth class.

DAVID WILLIAMS CHEEVER SCHOLARSHIP, with an income of \$200, was founded by David Williams Cheever, LL.D., M.D., of Boston in 1889. It is to be awarded to a poor and meritorious student of the first year, after three months probation in the Medical School.

ISAAC SWEETSER SCHOLARSHIP was founded in 1892 by Mrs. Anne M. Sweetser. The income of \$250 is to be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession."

CLAUDIUS M. JONES SCHOLARSHIP, with an income of \$250, is from a bequest of six thousand dollars by Cladius M. Jones, M.D.

ORLANDO W. DOE SCHOLARSHIP. One-half the income the from bequest of Orlando W. Doe, M.D., of five thousand dollars, amounting to \$100 "is to be given annually as a scholarship to a deserving student in the Medical department."

CHARLES PRATT STRONG SCHOLARSHIP, with an income of \$100, was founded in 1894 by friends and patients of the late Charles Pratt Strong, M.D.

THE LEWIS AND HARRIET HAYDEN SCHOLARSHIP for colored students was founded in 1894 from a bequest of Mrs. Harriet Hayden. The income is \$200.

ALFRED HOSMER LINDER SCHOLARSHIP, with an income of \$200, was founded in 1895 by Mrs. George Linder. It is to be awarded to a needy student who shall have proven himself to be of sound principles and marked ability.

EVELETH SCHOLARSHIPS. Three Scholarships with an annual income of \$200 each. Founded from the residuary bequest of thirty-seven thousand eight hundred and ninety-seven dollars and fourteen cents, made by Joseph Eveleth, of Boston, "for aiding deserving and indigent young men in obtaining an education in said College or any of the schools connected therewith." Three Scholarships on this foundation have been assigned to the Harvard Medical School.

EDWARD WIGGLESWORTH SCHOLARSHIP, with an income of \$200, was founded in 1897 by the family of the late Edward Wigglesworth, M.D., the yearly income of the fund to be paid to such needy and deserving students of the Medical School as the Medical Faculty shall annually recommend.

HILTON SCHOLARSHIP, with an income of \$225.

CHARLES B. PORTER SCHOLARSHIP, with an income of \$200, was founded in 1897 from a bequest of five thousand dollars by William L. Chase.

FACULTY SCHOLARSHIPS. Four scholarships, with an income of \$200 each, have been established by the Faculty, and are open to meritorious

students who have been at the School for at least one year. Only those students needing assistance are expected to apply; and of such, those holding the highest rank will have the preference. Holders of Faculty scholarships may be required to render assistance in laboratory courses to an amount not exceeding four hours per week.

The income of the John Foster Fund, amounting to about one hundred and fifty dollars, is payable every other year to one or more meritorious students needing assistance. The next payment will be in 1898.

All applications for scholarships or pecuniary aid, except for the Cheever and Hayden Scholarships, must be handed to the Dean on or before May 30 of each year.

Applications for the Cheever and Hayden Scholarships must be handed to the Dean on or before November 30.

The blank form on which all applications for pecuniary aid must be made can be obtained of the Dean.

#### FEES AND EXPENSES.

For matriculation, five dollars; for the first three years, two hundred dollars for each year (if in two payments, at the first, one hundred and twenty dollars; at the second, eighty dollars); for a half-year alone, one hundred and twenty dollars; the fee for the full year to all students entitled to be classified as fourth-year students and who have been regular members of the School for three full years will be one hundred dollars; for graduation, thirty dollars. During the first two years there are the following additional expenses: Two dollars for each of the three parts required for dissection; two dollars for physiological material; and five dollars per year for chemical material, in addition to the charge for breakage of glass apparatus. A deposit of fifteen dollars is required to cover these charges for chemical material and breakage. The balance of this deposit is returned at the end of the year. A deposit of two dollars with the Dean will entitle a student to the use of a locker in the School building. A student who wishes to rent a microscope of the School can do so upon payment of three dollars a term. In the fourth year a charge of three dollars will be made for material used in the course in Operative Surgery. Of students who do not pay in advance, a bond for \$300, executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Secretary of the Faculty, and all students are recommended to deposit such a bond. To students depositing bonds, term-bills will be presented one week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such

students will be held responsible for the payment of fees until they have notified the Dean in writing of their intention to withdraw from the School, and have subsequently received their bond from the Bursar.\* Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction. This remission will date from the reception by the Dean of a written notice of the student's withdrawal from the School. No degree can be conferred till all dues to the School are discharged. The student's general expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places at various prices can be obtained at the rooms of the Young Men's Christian Association, corner of Berkeley and Boylston Streets, and the rooms of the Young Men's Christian Union, No. 48 Boylston Street, Boston.

#### COURSES OF STUDY FOR GRADUATES.

The Faculty has arranged an improved plan of instruction for graduates, embracing nearly all the branches of practical and scientific medicine. It is designed to supply good opportunities for clinical and laboratory study.

The laboratories of the School are well equipped for practical work, and the clinical advantages afforded by the hospitals of Boston furnish abundant material for all purposes of instruction. The following are the principal institutions :—

Massachusetts General Hospital,	Boston Lying-in Hospital,
Boston City Hospital,	The Children's Hospital,
Boston Dispensary,	McLean Hospital (for the Insane,)
Massachusetts Eye and Ear Infirmary,	The Carney Hospital.
Free Hospital for Women,	

Instructors in the Medical School are members of the medical and surgical staffs of these institutions, and students are admitted to all of them under their immediate supervision.

Instruction in the graduate courses is entirely distinct from that of the undergraduate department of the School, with but few exceptions; but students of the former will be admitted also to all the regular lectures (not clinical) of the latter without extra charge during their connection with the School.

Instruction will be conducted in small classes and under the personal direction of the heads of departments.

Instruction will be given throughout the academic year, October to June. A certificate of attendance will be furnished when desired.

\* The Bursar's office is in Wadsworth House, Harvard Sq., Cambridge. Hours 9-1.

## FEES.

The fees for the separate courses in the several departments vary.

Fee for two months' attendance upon all the courses,	\$100.
" " four months' " " " "	150.
" " attendance throughout the academic year " " "	200.

An extra fee is required for the use of material in laboratory, dissecting and operative courses.

Graduates seeking admission to any of the above courses, must first register their names at the Dean's office at the Medical School, where all fees are payable and obtain a receipt to be shown at the first exercise,

Those pursuing these courses may elect the studies to which they will give their attention, and allot the time they will devote to each. They will be exempt, unless at their option, from examinations, and may obtain a certificate of attendance on the courses pursued. On payment of the full fee for the year, they will have the privilege of attending other exercises of the Medical School, the use of its laboratories and library, and all other rights accorded by the University.

A graduate of another medical school may obtain the degree of M.D. from this University, after a year's study in the graduates' course and after passing the required examinations, which can be taken only at the times set for the regular examinations in September, February (mid-year) and June.

For further information and full description of the courses and lectures for graduates, address Dr. WILLIAM L. RICHARDSON, *Dean*, Harvard Medical School, Boylston Street, Boston, Mass.

## SUMMER COURSES.

During the summer of 1898 courses in many branches of practical and scientific medicine will be given by some of the teachers of the School. These courses will be clinical in character and will be given at the Hospitals and Dispensaries by the physicians and surgeons on duty. Practical instruction will also be given in several of the Laboratories at the School by the instructors in charge.

A detailed list of the Summer Courses will be announced in March. For further information address Dr. WILLIAM L. RICHARDSON, *Dean*, Harvard Medical School, Boylston Street, Boston, Mass.

## The following Courses are announced in the Graduate Department for 1897-98.

SUBJECT.	INSTRUCTOR.	PLACE.	TIME.	FEES.
1. Anatomy of the Joints	Dr. Dwight	Medical School	Special.*	\$25.
2. Dissection Courses	Dr. Brooks	Medical School	After Nov. 1	20.
3. Special Anatomy Instruction	Dr. Dwight	Medical School	Special.*	Special.*
† 4. Histology and Microscopy	Drs. Minot and Schaper	Medical School	Special.*	30.
† 5. Elementary Human Embryology	Drs. Minot and Schaper	Medical School	Special.*	25.
† 6. Advanced Embryology	Dr. Minot	Medical School	Oct.—May	75-125
† 7. Structure of the Brain	Dr. Schaper	Medical School	March Apr.	5.
† 8. Physiology	Dr. Bowditch	Medical School	Special.*	Special.*
† 9. Medical Chemistry	Dr. Wood	Medical School	Special.*	35.
10. Practical Pathology	Dr. Councilman	Medical School	Special.*	30-50.
11. Neuropathology	Dr. Taylor	Medical School	Special.*	25.
12. Advanced Neuropathology	Dr. Taylor	Medical School	Special.*	75-125.
13. Surgical Pathology	Dr. Nichols	Medical School	Special.*	25.
14. Clinical Microscopy	Dr. Whitney	Boston City Hospital	Special.*	15.
15. Clinical Haematology	Dr. Morse	Boston City Hospital	Dec., Jan.	15.
† 16. Physical Diagnosis	Dr. Morse	Boston City Hospital	Oct., Nov.	15.
† 17. Physical Diagnosis	Dr. Ernst	Mass. General Hospital	Oct.	15.
† 18. Physical Diagnosis	Dr. Vickery	Mass. General Hospital	Nov., Dec., Jan.	25.
19. Clinical Medicine	Dr. Mason	Boston City Hospital	Nov., Dec., Jan.	20.
20. Clinical Medicine	Dr. V. Y. Bowditch	Boston City Hospital	March, Apr.	20.
† 21. Clinical Medicine	Dr. Withington	Boston City Hospital	May	20.
22. Clinical Medicine	Dr. Sears	Boston City Hospital	March	15.
23. Clinical Medicine	Dr. Sears	Boston City Hospital	Apr.	15.
† 24. Clinical Medicine	Dr. Morse	Boston City Hospital	Dec., Jan.	20.
† 25. Clinical Medicine	Dr. Jackson	Boston Dispensary	Oct. 15—Dec. 1	15.
† 26. Infectious Diseases	Dr. McCollom	Boston City Hospital	Oct., Nov.	25.
† 27. Intrabutton	Dr. McCollom	Boston City Hospital	Special.*	15.
28. Minor Surgery	Dr. Lund	Boston City Hospital	Apr., May, June	15.
† 29. Minor Surgery	Dr. J. B. Blake	Boston City Hospital	Apr., May, June	15.
30. Minor Surgery	Dr. Conant	Mass. General Hospital	Apr., May, June	25.
† 31. Minor Surgery	Dr. Mumford	Mass. General Hospital	Dec., Jan.	25.
† 32. Minor Surgery	Dr. Mumford	Carney Hospital	Feb.—June	10.
† 33. Clinical Surgery	Dr. Conant	St. Elizabeth's Hospital	Oct.—Jan.	15.
34. Clinical and Operative Surgery	Dr. Conant	Charity Club Hospital	Jan.—Apr.	25.
35. Clinical and Operative Surgery	Dr. Conant	Boston City Hospital	Feb.—June	25.
36. Clinical, Operative, Genito-urinary, Pathological and Minor Surgery	Drs. Monks and Thorndike	Boston City Hospital	Oct., Dec.	25.
37. Clinical, Operative, and Minor Surgery	Drs. Burrell, Lovett, and Munro	Boston City Hospital	Dec.—Apr.	25.
38. Operative Surgery	Dr. C. B. Porter	Medical School	Special.*	25.
† 39. Children's Surgery	Drs. Burrell and Lovett	Children's Hospital	Oct., Nov., Dec.	25.

140. Children's Surgery	Drs. Burrell and Lovett	Children's Hospital	Apr., May, June
141. Clinical Surgery	Dr. Gay	Boston City Hospital	15.
42. Clinical Surgery	Dr. Seudder	Mass. General Hospital	25.
143. Orthopedic Surgery	Dr. Bradford	Children's Hospital	1b.
44. Syphilis	Dr. Post	Boston Dispensary	25.
45. Clinical Obstetrics	Dr. W. L. Richardson	Boston Lying-in Hospital	20.
46. Clinical Obstetrics	Dr. C. M. Green	Boston Lying-in Hospital	20.
47. Practical Obstetrics	Dr. Revolds	Boston Lying-in Hospital	20.
48. Operative Obstetrics	Dr. C. M. Green	Medical School	25.
49. Diseases of the Skin	Dr. White	Mass. General Hospital	25.
50. Otology	Dr. Crockett	Infirmary	25.
51. Otology	Dr. Hammond	Infirmary	25.
52. Otology	Dr. Hammond	Infirmary	25.
53. Ophthalmology	Dr. Staudish	Mass. General Hospital	20.
54. Ophthalmology	Dr. Cheney	Boston City Hospital	20.
55. Ophthalmology	Dr. Jack	Free Hospital for Women	20.
56. Ophthalmology	Dr. Swift	Free Hospital for Women	20.
57. Gynaecology	Dr. Swift	Free Hospital for Women	20.
58. Gynaecology	Dr. Davenport	Free Hospital for Women	20.
59. Gynaecology	Dr. Davenport	Free Hospital for Women	20.
60. Gynaecology	Dr. Haven	Boston Dispensary	25.
61. Gynaecology	Dr. Swift	Boston Dispensary	25.
62. Gynaecology	Dr. C. M. Green	Boston City Hospital	25.
63. Gynaecology	Dr. Reynolds	Boston City Hospital	25.
64. Gynaecology	Dr. Davenport	Medical School	25.
65. Operative Gynaecology	Dr. DeBlos	Boston City Hospital	20.
66. Diseases of the Nose and Throat	Dr. Farlow	Boston City Hospital	20.
67. Diseases of the Nose and Throat	Dr. Coolidge	Mass. General Hospital	20.
68. Diseases of the Nose and Throat	Dr. Cowles	McLean Hospital	20.
69. Mental Diseases	Dr. Ernst	Medical School	25.
70. Bacteriology	Dr. Wentworth	Children's Hospital	20.
71. Diseases of Children	Dr. Wentworth	Children's Hospital	20.
72. Diseases of Children	Dr. Buckingham	Children's Hospital	20.
73. Diseases of Children	Dr. Buckingham	Mass. General Hospital	20.
74. Diseases of Children	Dr. Putnam	Boston City Hospital	20.
75. Advanced Neurology	Dr. Knapp	Mass. General Hospital	20.
76. Neurology	Dr. Knapp	Boston City Hospital	20.
77. Neurology	Dr. Walton	Boston City Hospital	20.
78. Neurology	Dr. Prince	Medical School	25.
79. Neurology	Dr. Harrington	Bussey Institutions	25.
80. Hygiene	Dr. Paff	Special.*	25.
81. Pharmacology	Dr. Smith	Special.*	25.
82. Comparative Pathology		Special.*	25.

\* To be arranged with instructor.

† Women admitted.

† Women admitted conditionally.

## SUMMER COURSES OF INSTRUCTION IN THE MEDICAL SCHOOL. 1897.

No.	Subject.	Instructor.	Place.	No. of Exercises.	Begins.	Ends.	Days.	Hour.	Fee.
1	Histology and Microscopy <sup>e</sup>	Dr. Ames	Medical School	18	July 14	Aug. 23	Mo. We. Fr.	3	20.00
2	Physiological Research <sup>b</sup>	Dr. W. T. Porter	Medical School						
3	Pathological Technique <sup>a</sup> <sup>b</sup>	Dr. Mallory	City Hospital		July 5	Aug. 16			30.00
4	Pathological Anatomy <sup>d</sup>	Dr. Taylor	Medical School	13	July 2	July 30	Mo. We. Fr.	3	25.00
5	Clinical Haematology <sup>a</sup> <sup>b</sup>	Dr. Morse	City Hospital	10	July	Aug.		3.30	25.00
6	Clinical Haematology	Dr. Hewes	Medical School	14	June 28	July 15	Daily	1	15.00
7	Clinical Haematology	Dr. Hewes	Medical School	18	July 21	Aug. 9	Daily	1	15.00
8	Bacteriology	Dr. Stone	Medical School	36	July 7	Aug. 15	Daily	3.30	30.00
9	Bacteriology <sup>e</sup>	Dr. Darling	Medical School	36	Aug. 16	Sept. 25	Daily	3.30	30.00
10	Chemistry <sup>e</sup> <sup>f</sup>	Dr. Hills	Medical School	30	June 28	July 31	Daily	10	30.00
11	Clinical Chemistry <sup>f</sup> <sup>g</sup>	Dr. Ogden	Medical School	30	June 28	July 30	Daily	1	30.00
12	General Therapeutics	Dr. Pfaff	Medical School	19	July 5	Aug. 13	Mo. We. Fr.	3	20.00
13	Practical Therapeutics <sup>a</sup>	Dr. Tenney	City Hospital	20	July 6	Aug. 19	Tu. Th. Sat.	10	20.00
14	Practical Pharmacy <sup>g</sup>	Dr. C. Harrington and Mr. Jordan	Medical School	12	July 2	July 28	Mo. We. Fr.	4	20.00
15	Practical Pharmacy <sup>g</sup>		Medical School	12	July 30	Aug. 25	Mo. We. Fr.	4	20.00
16	Diseases of the Digestive Organs <sup>a</sup>	Drs. Cutler and Hewes	Mass. Gen. Hosp.	12	July 6	Aug. 13	Tu. Fr.	10	30.00
17	Clinical Medicine	Dr. Gannett	Mass. Gen. Hosp.	20	July 2	Aug. 16	Mo. We. Fr.	9	20.00
18	Clinical Medicine	Dr. Gannett	Mass. Gen. Hosp.	20	Aug. 18	Sept. 29	Mo. We. Fr.	9	20.00
19	Clinical Medicine	Dr. Vickery	Mass. Gen. Hosp.	13	June 2	June 30	Mo. We. Fr.	10	15.00

20	Clinical Medicine	Dr. Jackson	City Hospital	20	July 2	Aug. 16	Mo. We. Fr.	10	15.00
21	Clinical Medicine	Dr. Sears	City Hospital	14	July 1	July 31	Tu. Th. Sat.	10.30	15.00
22	Clinical Medicine	Dr. Sears	City Hospital	13	Aug. 3	Aug. 31	Tu. Th. Fr.	10.30	15.00
23	Clinical Medicine	Dr. Stone	Mass. Gen. Hosp.	17	Aug. 5	Sept. 30	Th. Fr.	11	15.00
24	Orthopedic Surgery	Dr. Bradford	Children's Hosp.	18	July 5	Sept. 1	Mo. We.	4	20.00
25	Genito-Urinary Surgery	Dr. Watson	City Hospital	13	June 1	June 29	Tu. Th. Sat.	11	20.00
26	Genito-Urinary Surgery *	Dr. Thorndike	City Hospital	13	Aug. 2	Aug. 30	Mo. We. Fr.	10	20.00
27	Genito-Urinary Surgery *	Dr. Thorndike	City Hospital	13	Sept. 3	Sept. 29	Mo. We. Fr.	10	20.00
28	Clinical and Operative Surgery	Dr. Mixter	Mass. Gen. Hosp.	24	June 2	July 26	Mo. We. Fr.	11	25.00
29	Clinical and Operative Surgery	Dr. Mixter	Mass. Gen. Hosp.	26	Aug. 2	Sept. 29	Mo. We. Fr.	11	25.00
30	Clinical and Operative Surgery *	Dr. Monks	City Hospital	13	Aug. 2	Aug. 30	Mo. We. Fr.	10	20.00
31	Clinical and Operative Surgery *	Dr. Monks	City Hospital	13	Sept. 1	Sept. 29	Mo. We. Fr.	10	20.00
32	Clinical and Operative Surgery *	Dr. Conant	Carney Hospital	19	July 2	Aug. 13	Mo. We. Fr.	10	25.00
33	Clinical and Operative Surgery *	Dr. Conant	Carney Hospital	20	Aug. 16	Sept. 29	Mo. We. Fr.	10	25.00
34	Surgery of Children *	Dr. Lovett	Children's Hosp.	10	June 29	July 31	Tu. Sat.	3.30	15.00
35	Minor Surgery	Dr. Brooks	Mass. Gen. Hosp.	13	July 2	July 30	Mo. We. Fr.	10	20.00
36	Minor Surgery	Dr. Brooks	Mass. Gen. Hosp.	13	Aug. 2	Aug. 27	Mo. We. Fr.	10	20.00

\* Class-membership limited.

o A small charge will be made for laboratory materials.

♦ A satisfactory examination passed at the end of this course will be accepted in place of the entrance examination in Chemistry.

f A deposit of five dollars will be required to meet charges for supplies and broken apparatus.

g Each exercise is of two hours' duration.

b Details relating to time to be arranged later.

d Of the Nervous System only.

h Introductory exercises on the Anatomy of the Central Nervous System.

No.	Subject.	Instructor.	Place.	No. of Exercises.	Begins.	Ends.	Days.	Hour.	Fee.
37	Minor Surgery	Dr. C. A. Porter	Mass. Gen. Hosp.	13	July 1	July 31	Tu. Th. Sat.	10	20.00
38	Minor Surgery	Dr. C. A. Porter	Mass. Gen. Hosp.	13	Aug. 2	Aug. 2	Mo. We. Fr.	10	20.00
39	Minor Surgery	Dr. C. A. Porter	Mass. Gen. Hosp.	13	Sept. 2	Sept. 30	Tu. Th. Sat.	10	25.00
40	Minor Surgery	Dr. J. B. Blake	City Hospital	26	June 2	July 30	Mo. We. Fr.	10	20.00
41	Minor Surgery	Dr. Lund	City Hospital	26	June 1	Jmne 30	Daily	10	20.00
42	Minor Surgery	Dr. Lund	City Hospital	27	July 1	July 31	Daily	10	20.00
43	Clinical Obstetrics	Dr. Green	Lying-in Hosp.	50	June 1	Sept. 30			30.00
44	Clinical Obstetrics *	Dr. Haven	Lying-in Hosp.	9	July 2	July 30	Mo. Fr.	11	15.00
45	Clinical Obstetrics *	Dr. Townsend	Lying-in Hosp.	8	Sept. 3	Sept. 27	Mo. Fr.	11	15.00
46	Operative Obstetrics	Dr. Townsend	Medical School	8	Sept. 7	Sept. 17	Tu. We. Th. Fr.	4	20.00
47	Clinical Obstetrics *	Dr. Reynolds	Lying-in Hosp.	9	Aug. 2	Aug. 30	Mo. Fr.	11	15.00
48	Diseases of Children j	Dr. Birmingham	Children's Hosp.	18	June 1	July 30	Mo. Th. Sat.	10	20.00
49	Diseases of Children k	Dr. Wentworth	Children's Hosp.	18	Aug. 2	Sept. 30	Mo. Th. Sat.	10	20.00
50	Diseases of the Ear	Dr. C. J. Blake	Eye and Ear Inf.	13	July 6	July 31	Tu. Th. Sat.	9	12.00
51	Diseases of the Ear a g	Dr. Crockett	Eye and Ear Inf.	25	July 1	July 30	Daily	9	25.00
52	Diseases of the Ear a g	Dr. Crockett	Eye and Ear Inf.	2	Aug. 2	Aug. 31	Daily	9	25.00
53	Diseases of the Ear b m	Dr. Hammond	Medical School	24	June	Sept.	Mo. We. Fr.	3	25.00
54	Diseases of the Ear b	Dr. Hammond	Eye and Ear Inf.	12	July 6	July 31	Tu. Th. Sat.	9	12.00
55	Diseases of the Eye *	Dr. Cheney	Eye and Ear Inf.	21	June 14	July 30	Tu. Th. Sat.	9	20.00

66	Diseases of the Nose and Throat	Dr. Farlow	City Hospital	12	June 4	June 30	Mo. We. Fr.	10	20.00
57	Diseases of the Mind <sup>b</sup>	Dr. Fisher	Medical School	12	July	July		15.00	
68	Diseases of the Nervous System	Dr. Walton	Mass. Gen. Hosp.	13	Sept. 2	Sept. 30	Tu. Th. Sat.	10	20.00
59	Diseases of the Nervous System <sup>b</sup>	Dr. Taylor	Medical School	20	July 1	Aug. 14	Tu. Th. Sat.	25.00	
60	Diseases of the Nervous System <sup>b</sup>	Dr. Taylor	Medical School <sup>i</sup>	19	July 2	Aug. 13	Mo. We. Fr.	25.00	
61	Diseases of the Skin	Dr. Bowen	Mass. Gen. Hosp.	14	July 1	July 30	Tu. Th. Fr.	9.30	15.00
62	Diseases of the Skin	Dr. Bowen	Mass. Gen. Hosp.	13	Sept. 2	Sept. 30	Tu. Th. Fr.	9.30	15.00
63	Hygiene	Dr. C. Harrington	Medical School	36	July 1	Aug. 11	Daily	3	30.00
64	Municipal Sanitation	Dr. Durgin	Medical School	13	July 2	July 30	Mo. We. Fr.	3	20.00

<sup>a</sup> Class-membership limited.

<sup>i</sup> And at Long Island Hospital.

<sup>j</sup> A course will be of six weeks' duration and the class may be joined at any time before June 23.

<sup>k</sup> A course will be of six weeks' duration and the class may be joined at any time before August 25.

<sup>l</sup> A course will be of six weeks' duration.

<sup>m</sup> Includes anatomy of the ear and practice in mastoid and middle ear operations on the cadaver.

<sup>b</sup> Details relating to time to be arranged later.

## STUDENTS IN SUMMER COURSES, 1897.

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Bancroft, Irving Reed, <b>PH.B.</b> ( <i>Tufts Coll.</i> ) 1897,	<i>Woburn.</i>
Barry, Emmett William, <b>M.D.</b> ( <i>Coll. of P. &amp; S.</i> , <i>Baltimore</i> ) 1897,	<i>Oxford.</i>
Batchelder, William Burdett, <b>M.D.</b> 1894,	<i>Roxbury.</i>
Bell, Robert, <b>M.D.</b> 1884,	<i>Roxbury.</i>
Bergengren, Charles Henry,	<i>Lynn.</i>
Birdseye, Fred Gould, <b>M.D.</b> ( <i>Coll. of P. &amp; S.</i> , <i>Boston</i> ) 1893,	<i>Boston.</i>
Brenneman, Richard Emmor,	<i>Congo, W. Va.</i>
Burke, William Henry,	<i>Watertown.</i>
Call, Emma Louisa, <b>M.D.</b> ( <i>Univ. of Mich.</i> ) 1873,	<i>Boston.</i>
Callahan, Joseph Thomas,	<i>Woburn.</i>
Clarke, Edwin Augustus, <b>M.D.</b> ( <i>Boston Univ.</i> <i>Med. School</i> ) 1885,	<i>Worcester.</i>
Coolidge, Sumner, <b>A.B.</b> 1883,	<i>Watertown.</i>
Costello, John Henry, <b>M.D.</b> 1897,	<i>Dorchester.</i>
Crosby, Walter Theodore, <b>B.P.</b> ( <i>Brown Univ.</i> ) 1895,	<i>Brockton.</i>
Crowell, George Marcus, <b>A.B.</b> ( <i>Brown Univ.</i> ) 1894,	<i>Providence, R. I.</i>
Cutler, Charles Newton,	<i>Chelsea.</i>
Darling, Eugene Abraham, <b>A.B.</b> 1890, <b>M.D.</b> , <b>A.M.</b> 1894,	<i>Cambridge.</i>
Davidson, Kallman Moyer, <b>M.D.</b> ( <i>Univ. of Königsberg</i> ) 1887,	<i>Boston.</i>
Davis, Lincoln, <b>A.B.</b> 1894,	<i>Boston.</i>
Dorr, James Frederick,	<i>Oakdale.</i>
Dray, Frank Raymond, <b>A.B.</b> ( <i>Leland Stanford Jr. Univ.</i> ) 1895,	<i>Sacramento, Cal.</i>
Duncan, Samuel White, Jr., <b>A.B.</b> ( <i>Brown Univ.</i> ) 1895,	<i>Brookline.</i>
Emerson, Charles Phillips, <b>A.B.</b> ( <i>Amherst Coll.</i> ) 1894,	<i>Methuen.</i>
Emerson, William Robie Patten, <b>A.B.</b> ( <i>Dart. Coll.</i> ) 1892,	<i>Candia, N. H.</i>
Enebuske, Clæs Julius, <b>M.D.</b> 1896,	<i>Boston.</i>

Fiske, Charles Norman,	<i>Upton.</i>
Forbes, Edwin Baunister,	<i>Lawrence.</i>
French, Charles Ephraim, M.D. ( <i>Univ. of Md.</i> ) 1893,	<i>Lawrence.</i>
Friedman, Leo Victor, A.B. 1895,	<i>Cambridge.</i>
Fulton, Dugal MacEachran.	<i>Cambridge.</i>
Gaylord, William Avery,	<i>Pawtucket, R. I.</i>
Geib, Frank Julius, A.B. 1895,	<i>Cleveland, O.</i>
Gerry, Edwin Peabody, A.B. ( <i>Dart. Coll.</i> ) 1869, M.D. 1874,	<i>Boston.</i>
Gleason, Edward Francis,	<i>Hyannis.</i>
Goddard, Henry Edward, A.B. ( <i>Brown Univ.</i> ) 1895, M.D. ( <i>Dart. Med. School</i> ) 1896,	<i>Brockton.</i>
Grady, Henry Matthew,	<i>So. Natick.</i>
Graves, William Phillips, A.B. ( <i>Yale Coll.</i> ) 1891,	<i>Andover.</i>
Gray, Hugh Barr,	<i>Boston.</i>
Greene, Daniel Crosby, Jr., A.B. 1895,	<i>Boston.</i>
Grimes, Jesse Rideout,	<i>Franconia, N. H.</i>
Hammond, William John,	<i>Quincy.</i>
Hancock, John Clifford, A.B. 1895,	<i>Dubuque, Ia.</i>
Hartwell, Harry Fairbanks, A.B. 1895,	<i>Boston.</i>
Hazen, Charles Morse, A.M. ( <i>Richmond Coll.</i> ) 1889, M.D. ( <i>Med. Coll. of Va.</i> ) 1897,	<i>Richmond, Va.</i>
Henderson, Charles Russell, M.D. ( <i>Boston Univ.</i> ) 1889,	<i>Reading.</i>
Hill, George Sumner,	<i>Somerville.</i>
Hinckley, James William,	<i>Boston.</i>
Hosmer, Alfred Grahame,	<i>Watertown.</i>
Hurley, Daniel Breen,	<i>Boston.</i>
Hyde, Ida Henriette, PH.D. ( <i>Heidelberg Univ.</i> ) 1896,	<i>Chicago.</i>
Johnson, Harold Abbott, A.B. ( <i>Williams Coll.</i> ) 1895,	<i>Brookfield.</i>
Johnson, Philip Van Kuren,	<i>New York, N. Y.</i>
Kelley, Joseph Henry Hart,	<i>Charlestown.</i>
Kennedy, Arthur Lemuel,	<i>Boston.</i>
King, Maxwell Benedict,	<i>Boston.</i>
Kirk, Lucy Anne, M.D. ( <i>Boston Univ.</i> ) 1893,	<i>Dorchester.</i>
Knickerbocker, Percy Gates,	<i>Boston.</i>
Leighton, William Elston, A.B. ( <i>Boston Coll.</i> ) 1893,	<i>Dorchester.</i>
Lentine, Gaspare Emanuel Salvador,	<i>Boston.</i>
Lepper, David Barnard,	<i>Madison, N. H.</i>

Lippincott, Walter Maynard,	<i>Chicago, Ill.</i>
Manahan, Thomas James, s.b. 1896,	<i>Boston.</i>
Martin, John Brayton,	<i>Charlestown.</i>
May, William Ropes, a.b. 1894,	<i>Philadelphia, Pa.</i>
McDonald, William Joseph, a.b. 1895,	<i>Charlestown.</i>
McIntire, Herbert Bruce, m.d. ( <i>Univ. of N. Y. City</i> ) 1880,	<i>Cambridge.</i>
Merrill, William Howe, m.d. ( <i>Bowdoin Med. School</i> ) 1888,	<i>Lawrence.</i>
Mitchell, Arthur, m.d. ( <i>Boston Univ.</i> ) 1886,	<i>Medfield.</i>
Morris, John Joseph,	<i>E. Boston.</i>
Musgrave, Percy, a.b. 1894,	<i>Boston.</i>
O'Connell, Joseph Cyril,	<i>Wakefield.</i>
Odiorne, Walter Burlingame, a.b. 1895,	<i>Cambridge.</i>
Osgood, Robert Bayley, a.b. ( <i>Amherst Coll.</i> ) 1895,	<i>Salem.</i>
Phillips, Charles Henry,	<i>Beverly.</i>
Potter, Alexander Carleton, a.b. 1895,	<i>Boston.</i>
Pritchard, William Percival,	<i>Fall River.</i>
Raymond, Clarence Morse,	<i>Somerville.</i>
Reik, Henry Otridge, m.d. ( <i>Univ. of Md.</i> ) 1891,	<i>Baltimore, Md.</i>
Rich, Herbert Lowell, ph.b. ( <i>Wesleyan Univ.</i> ) 1888,	<i>Dorchester.</i>
Richardson, William Shedd, m.d. 1884,	<i>Marlboro.</i>
Roberts, Isaac Lincoln, a.b. ( <i>Selma Univ.</i> ) 1890, m.d. ( <i>Leonard Med. Coll.</i> ) 1894,	<i>Boston.</i>
Rounds, Albert Waterman,	<i>Providence, R. I.</i>
Rourke, Joseph Edward, a.b. 1890, m.d. 1894,	<i>Boston.</i>
Rood, Luther Colby,	<i>E. Boston.</i>
Sampson, John Albertson, a.b. ( <i>Williams Coll.</i> ) 1895,	<i>Troy, N. Y.</i>
Schallenbach, Ernest Bradford,	<i>Dorchester.</i>
Schuckmann, Frederick Augustus Leopold,	<i>Boston.</i>
Seelye, Walter Clark, a.b. ( <i>Amherst Coll.</i> ) 1895,	<i>Northampton.</i>
Serra, Julius Augustus,	<i>Melrose Highlands.</i>
Smith, Alfred Charles, ph.g. ( <i>Westminster Coll., London</i> ) 1887,	<i>Malden.</i>
Spalding, Basil Dennis, m.d. ( <i>Univ. of Md.</i> ) 1891,	<i>Richmond, Va.</i>
Spalter, Charles Marsh,	<i>Keene, N. H.</i>
Spaulding, Charles Lester, a.b. ( <i>Williams Coll.</i> ) 1890,	<i>Townsend Harbor.</i>

Sullivan, John Joseph,	<i>So. Boston.</i>
Thompson, Charles Arthur, M.D. ( <i>Coll. of P. &amp; S., Balt.</i> ) 1896,	<i>Brookline.</i>
Thompson, Peter Hunter,	<i>Boston.</i>
Tileston, Wilder, A.B. 1895,	<i>Milton.</i>
Tracy, Edward Aloysius, M.D. 1891,	<i>So. Boston.</i>
Tupper, Arthur Gordon,	<i>Rockport.</i>
Vaughan, Jonas Hobart, M.D. ( <i>Univ. of Vt.</i> ) 1880,	<i>Everett.</i>
Vogel, George Louis,	<i>Boston.</i>
Vogel, James Oswald,	<i>W. Quincy.</i>
Wales, Ernest de Wolfe,	<i>Braintree.</i>
Waterman, George Arthur, A.B. 1895,	<i>Malden.</i>
Wells, David Washburn, M.D. ( <i>Boston Univ.</i> ) 1897,	<i>Boston.</i>
Whittier, Frank Nathaniel, A.B. ( <i>Bowdoin Coll.</i> ) 1885, A.M. ( <i>Ibid.</i> ) 1888, M.D. ( <i>Ibid.</i> ) 1889,	<i>Brunswick, Me.</i>
Williams, Allen Hamilton, A.B. 1891,	<i>Fort Wayne, Ind.</i>
Wise, Arthur Mason,	<i>So. Boston.</i>
Withee, Frederick Elmarin, M.D. ( <i>Coll. of P. &amp; S., Balt.</i> ) 1892,	<i>Newton Highlands.</i>
Woodworth, Robert Sessions, A.M. 1897,	<i>Cambridge.</i>

## MEDICAL PRIZES.

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*Boylston Medical Prizes.* These prizes, open to public competition, are offered annually for the best dissertations on questions in medical science proposed by the Boylston Medical Committee.

At the annual meeting in Boston in 1897, a prize was awarded to J. Francis Walsh, M.D., of Camden, New Jersey, for an essay on *The Anatomy and Function of the Muscles of the Hand and the Extensors of the Thumb.*

For 1898 two prizes are offered:—

1. A prize of one hundred and fifty dollars for the best dissertation on *The results of Original Work in Anatomy, Physiology or Pathology.* The subject to be chosen by the writer.

2. A prize of one hundred and fifty dollars for the best dissertation on *The Internal Secretions of Glands.*

Dissertations on these subjects must be sent post-paid to W. F. WHITNEY, M.D., Harvard Medical School, Boston, Mass., on or before *January 1, 1898.*

For 1899 two prizes are offered:—

1. A prize of one hundred and fifty dollars for the best dissertation on *The results of Original Work in Anatomy, Physiology, or Pathology.* The subject to be chosen by the writer.

2. A prize of one hundred and fifty dollars for the best dissertation on *The Results of Original Investigations in the Psychology of Mental Disease.*

Dissertations on these subjects must be sent to the same address as above on or before *January 1, 1899.*

In awarding these prizes preference will be given to dissertations which exhibit original work, but if no dissertation is considered worthy of a prize, the award may be withheld.

Each dissertation must bear in place of its author's name some sentence or device, and must be accompanied by a sealed packet bearing the same sentence or device and containing within the author's name and residence. *Any clew by which the authorship of a dissertation is made known to the committee will debar such dissertation from competition.*

Dissertations must be written in a distinct and plain hand, and their pages must be bound in book form.

All unsuccessful dissertations are deposited with the Secretary, from whom they may be obtained, with the sealed packet unopened, if called for within one year after they have been received.

By an order adopted in 1826, the Secretary was directed to publish annually the following votes:—

1. That the Board do not consider themselves as approving the doctrines contained in any of the dissertations to which premiums may be adjudged.

2. That in case of publication of a successful dissertation, the author be considered as bound to print the above vote in connection therewith.

The Boylston Medical Committee is appointed by the President and Fellows, and consists of the following physicians: ROBERT T. EDES, M.D., *President*; WILLIAM F. WHITNEY, M.D., *Secretary*; H. P. BOWDITCH, M.D., FRANK W. DRAPER, M.D., J. COLLINS WARREN, M.D., SAMUEL G. WEBBER, M.D., F. H. WILLIAMS, M.D., EDWARD S. WOOD, M.D.

The address of the *Secretary* of the Boylston Medical Committee is WILLIAM F. WHITNEY, M.D., Harvard Medical School, Boston, Mass.

*William H. Thorndike Prize.* A prize of \$200 will be given annually to the author of the best essay on some subject in any branch of Surgery.

The students of Harvard Medical School and graduates of under five years' standing of any recognized medical school are eligible in competition for this prize.

Each essay must bear in place of its author's name some sentence or device, and must be accompanied by a sealed packet bearing the same sentence or device, and containing within the author's name and residence. If the author is a graduate, it must also contain the date of his graduation in medicine and the medical school from which he was graduated. Any clew by which the authorship of an essay is made known to the judges will debar such essay from the competition.

The essays must be sent to the Dean of the Harvard Medical School, 688 Boylston Street, Boston, Mass., U. S. America, on or before November 1 of each year, and the award will be made annually on December 24. If no essay is considered worthy of a prize, no award will be made.

## DEGREES.

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On Commencement Day, June 30, 1897, degrees were conferred as follows:—

### **M.D.** (*cum laude.*)

Adams, William Gray.	Lecompte, Walter Augustus, A.B.
Allen, Seabury Wells, A.B.	Marcy, Henry Orlando, Jr., A.B.
Badger, George Sherwin Clarke, A.M.	Moorehouse, George Wilton, L.M.
Briggs, Charles Edwin, A.B.	O'Neil, Richard Frothingham.
Broughton, Arthur Nicholson, A.B.	Richmond, Simon.
Buffum, Herbert Edwin.	Rust, Frank Lee Drummond.
Burke, Ernest Gisborne, A.M.	Shea, John Joseph.
Catlin, Sanford Robinson, P.H.B.	Smith, William Henry, A.B.
Chamberlain, Weston Percival, A.B.	Spalding, Fred Maurice, A.B.
Davis, William Horace, A.B.	Stetson, Frederick Winslow, A.B.
Donoghue, James Crowley.	Stevens, Ralph Emerson.
Gilbert, Louis Whitmore, A.B.	Stubbs, Frank Raymond, A.B.
Hurd, Randolph Campbell.	Swain, Howard Townsend.
Larrabee, Ralph Clinton, A.B.	Whiteside, George Shattuck.
	Williams, Harry Edwin.

### **M.D.**

Barton, John Alfred.	Jones, Frederick Ellis.
Blodgett, John Hammond.	Logan, Francis Parker Tays.
Burrows, Fred Grant, A.M.	McCauley, Albert Anthony, A.B.
Costello, John Henry, Jr.	McCormick, Thomas Henry.
Daly, Timothy Joseph.	McMurtry, Charles Wood.
Donlan, John Malachi.	Maguire, Charles Francis, A.B.
Dudley, Charles.	Maulhardt, Adolph Antone.
Emery, George Edwin.	Metzger, Butler.
Fitzgerald, Thomas Patrick, A.B.	Moore, John Henry.
Guiler, Robert Workman.	Montoya, José María.
Haines, Ignatius.	Newsome, Edgar Thomas.
Handy, Harry Tucker.	Parker, Arthur Holmes.
Hixon, Edwin Colfax.	Patten, Stephen Kerr.
Hogan, Joseph Ambrose.	Pearce, Richard Mills, Jr., M.D.
Johnson, David Joseph.	Pegram, John Combe, Jr., A.B.

Pettee, John Harris.	Stetson, Frank Eliot, A.B.
Reed, Victor Augustus.	Sullivan, John Thomas, Jr.
Ryerson, Edwin Warner.	Walton, William Joseph, D.M.D.
Smart, Frank Everard.	Weeks, William Joshua.
Smyser, Charles James.	Willis, Charles Austin, Ph.B.
Spooner, Henry Garretson, A.B.	

*Out of Course.*

Mains, Charles Frederick, as of Class of 1896.

**M.D.** (*Three years' course.*)

Desmond, Clarence Francis. Judge, Albert Augustine.

*Out of Course.*

Cahill, John Thomas, as of Class of 1896.

*The following Tabular View illustrates the distribution of studies throughout the year.*

1897-98, FROM OCTOBER TO FEBRUARY 1.

First Class.—First Term.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C. till January.	Histology. L. Prof. Minot.	†Anatomy, L. Asst. Prof. Dexter. Lect.-rm. C.
10		Histology. Laboratory. § 2.	Histology. L. Prof. Minot.	Histology. Laboratory. § 2.	†Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	Physiol. R. Prof. Bowditch. Lect.-rm. A.
11	Physiology. L. Prof. Bowditch. Lect.-room A.				Physiology. L. Prof. Bowditch. Lect.-room A.	
12	Anatomy, R. Dr. Tenney. Lect.-room C.	Bacteriology, L. Prof. Ernst. Beginning Jan. 1.	Physiological Chemistry, L. Prof. Hills. Lect.-room A.			*Laborat'y.
2	*Laboratory.	*Laboratory.	Histology. Laboratory. § 1.	*Laboratory.	Histology. Laboratory. § 1.	*Laborat'y.
3						
4						
5	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	

\* Anatomy, Bacteriology, Chemistry, and  
Physiology.

† Oct. Nov. Dec. in sections.

‡ After November.

L. Lecture.  
R. Recitation.  
C. Conference.  
Dem. Demonstration.  
Cl. Clinic.

B.C.H. = Boston City Hospital; Disp. = Boston Dispensary; M.G.H. = Massachusetts General Hospital; Free Hosp. o Free Hospital for Women.

These abbreviations refer to the following as well as to the above tables.  
The Museum will be open daily, 9-5 except Saturdays, 9-1.

The following Tabular View illustrates the distribution of studies throughout the year.

1897-98, FROM FEBRUARY TO JUNE.

First Class.—Second Term.

	Mondy.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9		Physiology, Conf. Prof. Bowditch. Lect.-room A.			Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	Anatomy, L. Asst. Prof. Dexter. Lect.R'm C.
10	Bacteriology L. Prof. Ernst.	Histology. Laboratory.	Embryology, L. Prof. Minot.	Histology. Laboratory.		Physiol. R. Prof. Bowditch. Lect.R'm A.
11	Physiology, L. Prof. Bowditch. Lect.-room A.				Physiology, L. Prof. Bowditch. Lect.-room A.	
12	Anatomy, R. Dr. Tenney. Lect.-room C.	Physiology, L. Prof. Bowditch. Lect.-room A.	Physiological Chemistry, L. Prof. Hills. Lect.-room A.	Physiology, L. Prof. Bowditch. Lect.-room A.	Physiological Chemistry, L. Prof. Hills. Lect.-room A.	*Laborat'y.
2	*Labaratory.	*Laboratory.	*Laboratory.	*Laboratory.	†Laboratory.	
3						
4						
5	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.	†Anatomy Dem.

\* Anatomy, Bacteriology, Chemistry, and  
Physiology.

Till January.

† April and May in sections.

L. Lecture.

R. Recitation.

C. Conference.

Dem. Demonstration.

Cl. Clinic.

B.C.H. = Boston City Hospital; Disp. = Boston Dispensary; M.G.H. = Massachusetts General Hospital; Free Hosp. = Free Hospital for Women.  
These abbreviations refer to the following as well as to the above tables.  
The Museum will be open daily, 9-5, except Saturdays, 9-1.

## Second Class.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
8	Surg. Apparatus and Bandaging. Dr. Munro, No. Grove St.	Surg. Apparatus and Bandaging. Dr. Munro, No. Grove St.	Surg. Apparatus and Bandaging. Dr. Munro. No. Grove St.	Surg. Apparatus and Bandaging. Dr. Munro. No. Grove St.	Surg. Apparatus and Bandaging. Dr. Munro. No. Grove St.	Surg. Apparatus and Bandaging. Dr. Munro, N. Grove St.
9	Clin. Med. Dr. Vickery, M. G. H.	† Theory and Practice. R. Dr. Cutler, M. G. H. 2d term at 10. † Med. Visit. Drs. Gannett & Vickery, M. G. H.	† Med. Visit. Prof. Mason & Dr. Withington, B. C. H.	† Med. Visit. Prof. Mason & Dr. Withington, B. C. H.	† Med. Visit. Drs. Gannett & Vickery, M. G. H.	Clin. Med. Dr. Withington, B. C. H.
10	* Auscultation Drs. Gannett, V. Y. Bowditch, Knight and Sears, M. G. H., Bost. Disp., & B. C. H.	* Auscultation Surg. Pathol. R. Dr. C. A. Porter, M. G. H. and Lect. Room C.	* Auscultation	* Auscultation	* Auscultation	Surg. Pathol. Clin. Dem. Asst. Prof. Burrell and Dr. Munro, B. C. H.
11	* Auscultation † Autopsies, B. C. H. and M. G. H.	* Auscultation † Autopsies, B. C. H. and M. G. H.	* Auscultation † Autopsies, B. C. H. and M. G. H.	Anatomy L. Asst. Prof. Dexter till Jan., Prof. Dwight in 2d term. Lect. Room C.	* Auscultation B. C. H. Operations. † Autopsies, B. C. H. and M. G. H.	* Auscult. M. G. H. Operations. † Autopsies, B. C. H. and M. G. H.
12	Pathology. R. Prof. Councilman, Laboratory.	Anatomy, L. Asst. Prof. Dexter till Jan., Prof. Dwight in 2d term, Lect. Room C.		Surg. Pathol. R. Dr. C. A. Porter. Lect. Room C.	† Anat. L. Prof. Dwight, Lect. Room C.	
2	† Path. Histol. Asst Prof Mallory, Laborat.	Clin. Chem. L. Prof. Wood, Lect. Room A.	† Path. Histol. Asst Prof Mallory, Laborat.	Clin. Chem. † L. or R. Prof. Wood, Lect. Room A. † L. or Conference.	Therapeut's. Dr. Harrington, Lect. Room E.	
3	† Surg. Pathol. Dr. Nichols, Laborat.	Pathology, L. Prof. Councilman, Lect. Room C.	† Surg. Pathol. Dr. Nichols, Laborat.	Pathology, L. Prof. Councilman, Lect. Room C.	Pathology. Dem. Prof. Councilman, Laboratory.	
4	† Pathology of Nervous System. L. & Dem. Dr. Taylor, Lect. Room A.	† Path. Histology. Asst. Prof. Mallory. Laboratory.	Therapeut's. Dr. Harrington. Lect. Room E.	† Path. Histology. Asst. Prof. Mallory. Laboratory.	Theo. & Pr. R. Dr. Cutler, Lect. Room E.	
5						

\* Till February in sections.

† In first half-year.

‡ In second half-year.

Laboratory exercises in Clin. Chem. daily except Saturdays. The Museum will be open daily, 9-5, except Saturdays, 9-1.

§ In second half year in sections.

¶ In sections of a third of the class.

## Third Class.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	†Gynaecology, L. or R. No. Grove St.	Clin. Med. B. C. H.	Clin. Med. M. G. H.	†Gynaecology, L. or R. No. Grove St. Neurology, M. G. H. (2d half-year).	Clin. Med. B. C. H.	Clin. Med. M. G. H.
10	Neurology, M. G. H. *Cl. Gynaecol. Disp. till Apr. *Clin. Surg. M. G. H. & B. C. H.	Clin. Surg. B. C. H. *Cl. Gynaecol. B. C. H. *Clin. Surg. M. G. H. & B. C. H.	Clin. Dermatol. M. G. H. *Cl. Gynaecol. Disp. till Apr. *Clin. Surg. M. G. H. & B. C. H.	Surgery. M. G. H. *Cl. Gynaecol. B. C. H. *Clin. Surg. M. G. H. & B. C. H.	Clin. Surg. B. C. H. *Cl. Gynaecol. Disp. till Apr. *Clin. Surg. M. G. H. & B. C. H.	Theory and Practice, M. G. H. *Pediatr's, Disp. and Child. Hosp. *Cl. Gynaecol. B. C. H. *Clin. Surg. M. G. H. & B. C. H.
11			Pediatrics. No. Grove St. *Cl. Obstet. Jan. — May.	Theo. & Pract. M. G. H. †Pediatrics, Contag. Dis. B. C. H.	Operations, B. C. H. †Pediatrics, Contag. Dis. B. C. H.	Operations, M. G. H. *Cl. Obstet. Jan. — May. †Pediatrics, Contag. Dis. B. C. H.
11½	Pediatrics, Med. Sch. or Child. Hosp.	Pediatrics, Med. Sch. or Child. Hosp.				
12			Clin. Surg. M. G. H.	Clin. Surg. Conf. M. G. H.		
2						
3	Obstetrics, L.	Theo. & Pract. L.	Obstetrics. Conf.	Obstetrics, L.	Theo. & Pract. L.	
4	Surgery, L.	Dermatology, L.	Surgery, L.	Mental Dis. L. Feb. — May.	Obstetrics, R.	

\* In sections.

† First half-year.

The Muscum will be open daily, 9-5, except Saturdays, 9-1.

## FOURTH CLASS. — OCTOBER.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Shattuck — Clinic. Clinical Medicine (c) M. (i. II.	J. O. Green — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Surgical Clinic (c) B. C. H.	Mason — Clinic. (Clinical Medicine (c) B. C. H.		Draper — Autopsy. Legal Medicine (c) B. C. H.
		C. M. Green — Clinic. <i>Women's diseases</i> B. C. H.		J. O. Green — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	C. M. Green — Clinic. <i>Women's dis.</i> (s) B. C. H.	
10	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf.	Standish — Clinic. Eye diseases (s) Jack — Clinic. B. C. H.	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf.	Standish — Clinic. Eye diseases (s) Eye & Ear Inf.
	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)
11	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	Monks — Clin. Lect. Clinical Surgery (c) B. C. H.	Monks — Clin. Lect. Clinical Surgery (c) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)
	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Bowen — Clinic. <i>Skin diseases</i> M. G. H.	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)
	Post — Clinic. B. D.		Post — Clinic. Syphilis (s) B. D.	Surgical Clinic (c) B. C. H.	Post — Clinic. Syphilis (s) B. D.	Surgical oper. (c) B. C. H.
						Prine — Clinic. <i>Neurology</i> B. C. H.
						Prine — Clinic. <i>Neurology</i> B. C. H.

12	C. B. Porter — Lect. Clinical Surgery (c) M. G. II.	Post — Lecture. Syphilis (c) B. D.	Watson — Clin. Lect. Genito-urin. dis. (c) B. G. II.
	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)
2	Whitney — Lab. Clin. Microscopy M. S.	Whitney — Lab. Clin. Microscopy M. S.	Whitney — Lab. Clin. Microscopy M. S.
	Ernst — Lecture. <i>Bacteriology</i> M. S. (2 hours)	Ernst — Laboratory. <i>Bacteriology</i> (s) M. S. (2 hours)	Ernst — Lab. <i>Bacteriology</i> M. S. (2 hours)
3	Hammond — Recit. Anat. of Ear (s) M. S.	Draper — Lecture. Legal Medicine (c) M. S.	Draper — Lecture. Legal Medicine (c) M. S.
	Blake — Lecture. Otology (c) M. S.	J. O. Green — Lect. Otology (c) M. S.	J. O. Green — Lect. Otology (c) M. S.
4	Bradford — Lecture. Orthopedic Surg. (s) Ch. II.	Wadsworth — Lect. Anat. of Ear (s) M. S.	Blake — Lecture. Otology (c) M. S.
	Bradford — Lecture. Orthopedic Surg. (c) M. S. or Ch. II. After Oct. 6.	Wadsworth — Lect. Ophthalmology (c) M. S.	Blake — Lecture. Otology (c) M. S.
5	M. H. Richardson. Regional Surgery Lect. Room C.	Bradford — Clinie. Orthopedic Surg. (s) Ch. II.	Bradford — Clinie. Orthopedic Surg. (s) Ch. II.
	Monks — Lecture. <i>Surg. landmarks</i> (c) M. S.	M. H. Richardson. Regional Surgery Lect. Room C.	Farlow — Lecture. Laryngology (c) M. S.
7.30	Accident-room Surgical Emergency Clinic (s) M. G. II.	Monks — Lecture. <i>Surg. landmarks</i> M. S.	Monks — Lecture. <i>Surg. landmarks</i> M. S.
	Accident-room Surgical Emergency Clinic (s) M. G. II.	Accident-room Surgical Emergency Clinic (s) M. G. II.	Accident-room Surgical Emergency Clinic (s) M. G. II.

(c) Classes.

(s) Section of the class.

Electives are in *italics*.

## NOVEMBER.

		Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Shattuck — Clinic. Clinical Medicine (c) M. G. H.	J. O. Green — Clinic. Ear Diseases (s) E. & E. Inf. (2 hrs.)	Surg. Clinic (c) B. C. H.	Mason — Clinic. Clinical Medicine (c) B. C. H. ?	C. M. Green — Clinic. Women's diseases B. C. H.	Draper — Autopsy. Legal Medicine (c) B. C. H.	
	.	C. M. Green — Clinic. Women's diseases B. C. H.		J. O. Green — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)		J. O. Green — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	
10	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Standish — Clinic. Eye diseases (s) Jack — Clinic. B. C. H.		Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf. B. C. H.	Standish — Clinic. Eye diseases (s) Eye & Ear Inf.	
	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	
11	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat disease (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat disease (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat disease (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	
	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Bowen — Clinic. Skin diseases M. G. H.	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Bowen — Clinic. Skin diseases M. G. H.	Bowen — Clinic. Skin diseases M. G. H.	
	Surg. Clinic (c) M. G. H.					Prince — Clinic. Neurology B. C. H.	
	Post — Clinic. Syphilis (s) B. D.					Post — Clinic. Prince — Clinic. Neurology B. C. H.	Surgical oper. (c) M. G. H.
	Putnam — Clinic. Neurology M. G. H.					C. B. Porter — Diagnosis in Clinical Surgery (s) M. G. H.	Surgical oper. (c) B. C. H.

12	C. B. Porter — Lect. Clinical Surgery (c) M. G. II.	Post — Lecture. Syphilis (c) B. D.	Watson — Clin. Lect. Genito-urin. Surg. (c) B. C. II.
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours).	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)
3	Whitney — Lab. Clin. Microscopy M. S.	Whitney — Lab. Clin. Microscopy M. S.	Whitney — Lab. Clin. Microscopy M. S.
4	Ernst — Lecture. <i>Bacteriology</i> M. S. (2 hours)	Ernst — Lab. <i>Bacteriology</i> M. S. (2 hours)	Ernst — Lab. <i>Bacteriology</i> M. S. (2 hours)
5	Draper — Lecture. <i>Legal Medicine</i> (c) M. S.	Draper — Lecture. <i>Legal Medicine</i> (c) M. S.	Draper — Lecture. <i>Legal Medicine</i> (c) M. S.
7.30	J. O. Green — Lect. Otology (c) M. S.	Wadsworth — Lect. Orthopedic Surg. (c) M. S. or Ch. II.	J. O. Green — Lect. Otology (c) M. S.
	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.
	C. M. Green — Lect. and Demonstration in <i>Oper. Obstetrics</i> M. S.	†C. B. Porter. <i>Dem. Oper. Surg.</i> M. S.	M. H. Richardson. Regional Surgery. Lect. Room C.
	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.	Farlow — Lecture. Laryngology (c) M. S.
			C. B. Porter. <i>Dem. Oper. Surg.</i> M. S.
			Accident-room Clinic (s) M. G. II.
			Accident-room Clinic (s) M. G. II.

\* Provisional.

† Repetition courses by the students will take place in the evening at the Medical School at hours to be announced.

## DECEMBER.

		Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Shattuck — Clinic. Clinical Med. (c) M. G. II.	Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Surgical Clinic (c) B. C. II.	Mason — Clinic. Clinical Medicine (e) B. C. II.	C. M. Green — Clinic. Women's Diseases B. C. II.	C. M. Green — Clinic. Women's Diseases B. C. II.	Draper — Autopsy. Legal Medicine (e) B. C. II.
	C. M. Green — Clinic. Women's Diseases B. C. II.	Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Blake — Clinic. Ear diseases (s)	Blake — Clinic. Ear diseases (s)	E. & E. Inf. (2 hrs.)	Draper — Autopsy. Legal Medicine (e) B. C. II.
10	Wadsworth — Clinic. Eye diseases (s) E. & E. Inf. (2 hrs.)	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf.	Standish — Clinic. Eye diseases (s) Eye & Ear Inf. Jack — Clinic. B. C. II.	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf. Jack — Clinic. B. C. II.	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Standish — Clinic. Eye diseases (s) Eye & Ear Inf.
	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. II. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. II. (2 hours)	Farlow — Clinic. Throat diseases (s) B. D. (2 hours)
11	DeBlois — Clinic. Throat diseases (s) B. C. II. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. II. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. II. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. II. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. II. (2 hours)	Burrell — Lecture. Clin. Surgery (e) B. C. II.	Coolidge — Clinic. Laryngology (s) M. G. II. (2 hours)
	Surgical Clinic (e) M. G. II.		Bowen — Clinic. Skin diseases M. G. II.			Bowen — Clinic. Skin diseases M. G. II.	Prince — Clinic. Neurology B. C. II.
	Post — Clinic. Syphilis (s) B. D.		Post — Clinic. Syphilis (s) B. D.	Surg. Clinic (e) B. C. II.	Post — Clinic. Syphilis (e) B. D.	Surgical oper. (e) M. G. II.	Prince — Clinic. Neurology B. C. II.
	Putnam — Clinic. Neurology M. G. II.						Surgical oper. (e) B. C. II.

12	C. B. Porter — Lect. Clinical Surgery (c) M. G. II.	Post — Lecture. Syphilis (c) B. D.	Watson — Clin. Lect. Genito-urin. Surg. (c) B. C. II.
	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)
2	Whitney — Lab. Chm. Microscopy M. S.	Whitney — Lab. Chm. Microscopy M. S.	Whitney — Lab. Chm. Microscopy M. S.
	Ernst — Lecture. <i>Bacteriology</i> M. S. (2 hours)	Ernst — Lab. <i>Bacteriology</i> M. S. (2 hours)	Ernst — Lab. <i>Bacteriology</i> M. S. (2 hours)
3	Draper — Lecture. Legal Medicine (c) M. S.	Draper — Lecture. Legal Medicine (c) M. S.	Draper — Lecture. Legal Medicine (c) M. S.
	Blake or J. O. (Green) — Lecture. Otology (c) M. S.	Bradford — Lecture. Orthopedic Surg. (s) M. S.	Blake or J. O. Green — Lect. Otology (c) M. S.
4	Bradford — Clinic. Orthopedic Surg. (s) Ch. H.	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.	Clinical Conference. M. S.
	C. M. Green — Lect. and Demonstration. <i>Oper. Obstetrics</i> M. S.	Wadsworth — Lect. Ophthalmology (c) M. S.	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.
5	C. B. Porter. <i>Dem. Oper. Surg.</i> M. S.	M. H. Richardson. Regional Surgery. Lect. Room C.	C. B. Porter. <i>Dem. Oper. Surg.</i> M. S.
	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.
7.30			Accident-room Clinic (s) M. G. II.

JANUARY.					
	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Shattuck — Clinic. Clinical Medicine (c) M. G. H.	Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Surgical Clinic (c) B. C. H.	Mason — Clinic. Clinical Medicine (c) B. C. H.	C. M. Green — Clinic. Women's diseases B. C. H.
				Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Draper — Autopsy. Legal Medicine (c) B. C. H.
10		C. M. Green — Clinic. Women's diseases B. C. H.		Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)	Blake — Clinic. Ear diseases (s) E. & E. Inf. (2 hrs.)
	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf.	Standish — Clinic. Eye diseases (s) Eye & Ear Inf. Jack — Clinic. B. C. H.	Wadsworth — Clinic. Eye diseases (s) Eye & Ear Inf.	Cheney — Clinic. Eye diseases (s) Eye & Ear Inf. Jack — Clinic. B. C. H.
11	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)		DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)	DeBlois — Clinic. Throat diseases (s) B. C. H. (2 hours)
	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)		Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)	Coolidge — Clinic. Throat diseases (s) M. G. H. (2 hours)
	Bowen — Clinic. Skin diseases M. G. H.		Bowen — Lecture. Clinical Surgery (c) B. C. H.	Burrell — Lecture. Clinical Surgery (c) B. C. H.	Bowen — Clinic. Skin diseases M. G. H.
	Surgical Clinic (c) M. G. H.				Post — Clinic. Syphilis (s) B. D.
					Prince — Clinic. Neurology B. C. H.
					Post — Clinic. Syphilis (s) B. D.
					Prince — Clinic. Neurology B. C. H.
					Porter — Diagnosis in Clinical Surg. (s) M. G. H.
					Surgical oper. (c) B. C. H.

12	C. B. Porter — Lect. Clinical Surg. (c) M. G. II.	Post — Lecture. Syphilis (c) B. D.	Watson — Clin. Lect. Genito-urin. Surg. (c) B. C. II.
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours).	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. Clin. Microscopy M. S. (2 hours)
3	* Whitney — Lab. Clin. Microscopy M. S. (2 hours)	Whitney — Lab. Clin. Microscopy M. S. (2 hours)	Whitney — Lab. Clin. Microscopy M. S. (2 hours)
4	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.	Draper — Lecture. Legal Medicine (c) M. S.	Draper — Lecture. Legal Medicine (c) M. S.
5	Bradford — Lecture. Orthopedic Surg. (c) M. S.	Wadsworth — Lect. Ophthalmology (c) M. S.	Clinical Conference. M. S.
7.30	Demonstrations in <i>Oper. Obstetrics.</i> M. S. (2 hours).	M. H. Richardson. Regional Surgery. Lect. Room C.	Bradford — Clinic. Orthopedic Surg. (s) Ch. II.
		M. H. Richardson. Regional Surgery. Lect. Room C.	Farlow — Lecture. Laryngology (c) M. S.
		Demonstrations in <i>Oper. Obstetrics.</i> M. S. (2 hours).	Accident-room Clinic (s) M. G. II.
		Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.
			Accident-room Clinic (s) M. G. II.

\* The exercises during the 2d half-year will cover the requirements for the examination.

† Provisional.

## FEBRUARY.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Slattuck — Clinic. Clinical Medicine (c) M. G. H.	C. M. Green — Clinic. <i>Women's diseases</i> B. C. H.	Surgical Clinic (c) B. C. H.	Mason — Clinic. Clinical Medicine (c) B. C. H.	C. M. Green — Clinic. <i>Women's diseases</i> B. C. H.	
	J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)		J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)		J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)	
	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.	Wadsworth — Clinic. <i>Eye diseases</i> M. G. H.	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.	Burrell — Lecture. Clinical Surgery (c) B. C. H.	Wadsworth — Clinic. <i>Eye diseases</i> B. C. H.	
10		Bowen — Clinic. <i>Skin diseases</i> M. G. H.			Bowen — Clinic. <i>Skin diseases</i> M. G. H.	
	Surgical Clinic (c) M. G. H.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. H.	*		Walton — Clin. Lect. <i>Nervous diseases</i> M. G. H.	
11					M. H. Richardson. Diagnosis in Clinical Surgery (s) M. G. H.	
	Gannett — Clinic. Pract. Diagnosis (c) M. G. H.				Surgical oper. (c) M. G. H.	Surgical oper. (c) B. C. H.

12	M. H. Richardson. Lecture. Clinical Surgery (c) M. G. II.	McCollom. — Clinic. Infectious Dis. (s) B. C. II.	Watson — Clin. Lect. genito-urin. Surg. (c) B. C. II.	McCollom — Clinic. Infectious Dis. (s) B. C. II.
	Knapp — Clinic. <i>Nervous diseases</i> B. C. II.	Knapp — Clinic. <i>Nervous diseases</i> B. C. II.		
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)
3			Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)
4	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.	Durgin — Lecture. Municip. Sanita. M. S.	Durgin — Lecture. Municip. Sanita. M. S.
5		Ilomans — Lecture. Ovar. Tumors M. S.	Harrington — Lect. Hygiene M. S.	Durgin — Lecture. Municip. Sanita. M. S.
7.30	Accident-room Clinic (s) M. G. II.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.	Harrington — Lect. Hygiene M. S.	Harrington — Lect. Hygiene M. S.
	Dem. <i>Oper. Obstetrics</i> M. S. (2 hours)	Dem. <i>Oper. Obstetrics</i> M. S. (2 hours)	Brooks — Dem. Anatomy M. S.	Brooks — Dem. Anatomy M. S.
	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.

## MARCH.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Shattuck — Clinic. Clinical Medicine (c) M. G. II.	C. M. Green — Clinic. Women's diseases B. C. II.	Surgical Clinic (c) B. C. II.	Mason — Clinic. Clinical Medicine (c) B. C. II.	C. M. Green — Clinic. (c) <i>Women's diseases</i> B. C. II.	
	J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)		J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)		J. O. Green — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)	
	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.	Wadsworth — Clinic. <i>Eye diseases</i> M. G. II.	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.	Burrell — Lecture. Clinical Surgery (c) B. C. II.	Wadsworth — Clinic. <i>Eye diseases</i> B. C. II.	
10				Bowen — Clinic. <i>Skin diseases</i> M. G. II.	Bowen — Clinic. <i>Skin diseases</i> M. G. II.	
				Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.		Walton — Clin. Lect. <i>Nervous diseases</i> M. G. II.
11					Surgical Clinic (c) B. C. II.	Surgical oper. (c) M. G. II.
	Gannett — Clinic. Pract. Diagnosis (c) M. G. II.				M. H. Richardson. Diagnosis in Clinical Surgery (s) M. G. II.	Surgical oper. (c) B. C. II.

12	M. II. Richardson. Lecture. Clinical Surgery (v) M. G. II.	McCollum — Clinic. Infectious Dis. (s) B. C. II.	Watson — Clin. Lect. (Genito-urin. Surg. (c) B. C. II.	McCollum — Clinic. Infectious Dis. (s) B. C. II.
	Knapp — Clinic. <i>Nervous diseases</i> B. C. II.	Knapp — Clinic. <i>Nervous diseases</i> B. C. II.	Watson — Clin. Lect. (Genito-urin. Surg. (c) B. C. II.	Watson — Clin. Lect. (Genito-urin. Surg. (c) B. C. II.
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)
3				Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)
4	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.	Bradford — Lecture. Munieip. Sanita. (v) M. S.	Durgin — Lecture. Munieip. Sanita. (v) M. S.	Cowles — Clinic. Mental diseases. M. C. II.
5		Homans — Lecture. Ovar. Tumors (v) M. S. (2 weeks)	Harrington — Lect. Hygiene M. S.	Harrington — Lect. Hygiene M. S.
7.30	Accident-room Clinic (s) M. G. II.	Gyneco. Conference. M. S.	Bradford — Clinic. <i>Orthopedic Surg. (s)</i> Ch. II.	Bradford — Clinic. <i>Orthopedic Surg. (s)</i> Ch. II.
			Brooks — Dem. Anatomy M. S.	Brooks — Dem. Anatomy M. S.
			*	*
			Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.
			Accident-room Clinic (s) M. G. II.	Accident-room Clinic (s) M. G. II.

		APRIL.		Saturday.	
		Monday.	Tuesday.	Wednesday.	Thursday.
9	Shattuck — Clinic. Clinical Medicine (c) M. G. II.	C. M. Green — Clinic. Women's diseases B. C. H.	Surgical Clinic (c) B. C. H.	Mason — Clinic. Clinical Medicine (c) B. C. II.	C. M. Green — Clinic. Women's Diseases B. C. II.
	Blake — Clinic. Ear diseases E. & E. Inf. (2 hrs.)		Blake — Clinic. Ear diseases E. & E. Inf. (2 hrs.)		Blake — Clinic. Ear diseases E. & E. Inf. (2 hrs.)
10	Wadsworth — Clinic. Eye diseases Eye & Ear Inf.	Wadsworth — Clinic. Eye diseases M. G. II.	Wadsworth — Clinic. Eye diseases Eye & Ear Inf.	Gay — Lecture. Clinical Surgery (c) B. C. II.	Wadsworth — Clinic. Eye diseases B. C. II.
	Surgical Clinic (c) M. G. II.		Bowen — Clinic. Skin diseases M. G. H.		Bowen — Clinic. Skin diseases M. G. II.
11		Bradford — Clinic. Orthopedic Surg. Ch. H.			Walton — Clin. Lect. Nervous diseases M. G. II.
	Gannett — Clinic. Pract. Diagnosis (c) M. G. II.			M. H. Richardson. Lecture, Diag. in Cl. Surg. (s) M. G. H.	Surgical oper. (c) M. G. II.

12	M. II. Richardson. Clinical Surgery (c) M. G. II.	McCollom — Clinic. Infectious Dis. (s) B. C. II.	Knapp — Clinic. <i>Nervous diseases</i> B. C. II.	Watson — Clin. Lect. Genito-urin. Surg. (c) B. C. II.	McCollom — Clinic. Infectious Dis. (s) B. C. II.
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)
3					
4	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.			Cowles — Clinic. Mental diseases McL. II.	Fisher — Clinic. Mental diseases B. L. II.
5				Harrington — Lect. Hygiene M. S.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.
7.30	Accident-room Clinic (s) M. G. II.	Gynecol. Conference. M. S.	Harrington — Lect. Hygiene M. S.	Clinical Conference. M. S.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. II.

		Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Shattuck — Clinic. Clinical Medicine (c) M. G. H.	Blakc — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)	Surgical Clinic (c) B. C. H.	Mason — Clinic. Clinical Medicine (c) B. C. H.			Blake — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)
	C. M. Green — Clinic. <i>Women's diseases</i> B. C. H.			Blake — Clinic. <i>Ear diseases</i> E. & E. Inf. (2 hrs.)	C. M. Green — Clinic. <i>Women's diseases</i> B. C. H.		
	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.	Wadsworth — Clinic. <i>Eye diseases</i> Eye & Ear Inf.		Burrell — Lecture. Clinical Surgery (c) B. C. H.	Wadsworth — Clinic. <i>Eye diseases</i> B. C. H.		
10	Surgical Clinic (c) M. G. H.		Bowen — Clinic. <i>Skin diseases</i> M. G. H.		Bowen — Clinic. <i>Skin diseases</i> M. G. H.		
			Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. H.			Walton — Clin. Lect. <i>Nervous diseases</i> (c) M. G. H.	
11					M. H. Richardson. Diagnosis in Clinical Surgery (s) M. G. H.	Surgical Clinic (c) B. C. H.	Surgical oper. (c). M. G. H.
	Gannett — Clinic. Pract. Diagnosis (c) M. G. H.					Surgical oper. (c) B. C. H.	

12	Knapp — Clinic. <i>Nervous diseases</i> B. C. H.	McCollom — Clinic. Infectious dis. (s) B. C. H.	Watson — Clin. Lect. Genito-urin. Surg. (c) B. C. H.	McCollom — Clinic. Infectious dis. (s) B. C. H.
2	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)	W. T. Porter — Lab. <i>Exper. Physiol.</i> M. S. (2 hours)
3				Whitney — Lab. <i>Clin. Microscopy</i> M. S. (2 hours)
4	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. H.	Bradford — Clinic. <i>Orthopedic Surg.</i> Ch. H.	Harrington — Lect. Hygiene M. S.	Cooking School.
5			Gynecol. Conference. M. S.	Cooking School.
7.30	Accident-room Clinic (s) M. G. H.	Accident-room Clinic (s) M. G. H.	Accident-room Clinic (s) M. G. H.	Accident-room Clinic (s) M. G. H.

## EXAMINATION PAPERS.

(*Annual Examinations, 1897.*)

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### First Year's Studies.

FIRST YEAR ANATOMY.—Professor DWIGHT.

1. Describe a typical cervical vertebra.
2. Describe the ligaments of the elbow, the flexor profundus digitorum, and the obturator internus muscles.
3. Describe the surfaces of the liver.
4. Describe the corpus callosum and its relations.
5. Describe the second division of the fifth pair of nerves. (Omit ganglion.)

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PHYSIOLOGY.—Professor BOWDITCH.

[Number the answers to the questions without copying the questions themselves. Do not number the pages of the book. Answer the questions in order, writing on each page in succession.]

1. Why is the combustion warmth of an article of food not an absolute measure of its nutritive value?
2. Describe the process of bread-making.
3. What are the functions of the pancreas?
4. To what extent may the skin act as an absorbing organ?
5. How may the work of the heart be estimated?
6. What are the forces which determine the flow of the lymph?
7. Can fever be produced simply by an increased heat production in the body? Give reasons for your opinion.
8. Urea: where formed? where excreted? relation to muscular work?
9. What is the function of the cerebellum?
10. Why is binocular superior to monocular vision?
11. What is the difference between inspired and expired air?
12. Describe an experiment to demonstrate the independent irritability of muscles.
13. How may the force of ciliary motion be studied?

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PHYSIOLOGICAL CHEMISTRY.—Professor W. B. HILLS.

1. Describe in detail the changes which starch undergoes under the influence of (a) dilute acids; (b) ptyalin. How may these changes be demonstrated?

2. What is an enzyme? Give their classification, according to their action. What conditions influence the activity of these bodies?
3. Albumins and globulins. Resemblances and differences?
4. Describe in detail the chemical changes which proteids undergo during the process of digestion, and absorption.
5. Describe the best clinical tests for the detection of free hydrochloric acid, and lactic acid, in the gastric contents.
6. What is the composition of the bile? For which of its constituents would you test in order to determine the presence of bile in the urine? Describe the test.
7. What is the average quantity of urine passed in 24 hours by a healthy male adult? On the average, what is the amount of total solids contained therein? Urea? Uric acid? Chlorine?
8. Describe the hypobromite process for the quantitative determination of urea.
9. What crystalline deposits may occur in the sediment of urine? How identify each (answer briefly)? Which are essentially pathological?

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#### HISTOLOGY.—Professor C. S. MINOT.

[Three specimens numbered to correspond with the questions below are given to each student. Students are expected to make simple drawings, sufficient to show that they have correctly identified the parts.]

The specimens given were:—1, Human skin; 2, Spinal cord, Weigert's stain; 3, Uterus of dog.

1. Name the three principal tissues to be observed in the section. Draw a section of a blood-vessel and name the layers of the wall of the vessel.
2. What is the organ? Draw and name one of its largest cells and state in what part of the organ it occurs.
3. Make a high power drawing of the epithelium. Are there any smooth muscle fibres? If so, how are they cut?

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#### BACTERIOLOGY.—Professor ERNST.

1. Anthrax,—describe the cause of the disease.
2. What are the principal suppurative bacteria? Describe two.
3. Given a specimen of pus,—how would you proceed to make a bacteriological examination of it?

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#### Second Year's Studies.

##### SECOND YEAR ANATOMY.—Professor DWIGHT.

1. Give the relations of the right subclavian artery.
2. Describe the intra-cranial part of the fifth pair of nerves with the relations. (This includes the deep origin.)
3. Describe the œsophagus, position, course, relations, and size.

4. Give a general description of the veins of the lower extremity with the course of the blood.
5. Describe what can be felt in the region of the knee. Give the positions of the most important bursæ, vessels, and nerves.

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### PATHOLOGY.—Professor COUNCILMAN.

1. What are the differences between inflammation produced by bacteria and inflammation produced by chemical substances?
2. What do you mean by the organization of an exudation and how does it take place?
3. Describe and name the lesions you would expect to find in the lungs in a case of suppuration in the neck with thrombosis of the jugular vein.
4. Describe the gross and microscopic appearance of the liver in a case of long standing mitral stenosis.
5. What are the two forms of tuberculosis of the kidney? Describe the lesions in each.
6. Describe a miliary tubercle.
7. What is the most common situation of carcinoma of the stomach, in what lymph glands and organs would you expect to find metastases?
8. Mention three diseases which may be produced by the pneumococcus.
9. What is Meckel's diverticulum, where is it situated, and to what conditions may it give rise?
10. Describe the lesions in the glomeruli in a case of acute glomerulonephritis.

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### THERAPEUTICS.—Dr. HARRINGTON.

1. In what ways do cathartics produce their effects? Principle uses of cathartics. Mention some foods that favor catharsis; some that favor constipation. Give reasons for their action.
2. Classify the irritants. How administer a drug by the mouth so that it may act in the intestine and not in the stomach? Mention any drugs which may cause a rise in temperature.
3. Describe (1) Chloroform, (2) Galla, (3) Acidum Arsenosum, (4) Subnitrate of Bismuth, (5) Reduced Iron.
4. Write prescriptions (avoiding abbreviations of official names) for (1) Chloral, (2) Belladonna plaster, (3) Citrine ointment, (4) Tincture of Nux Vomica, (5) Epsom salts.
5. Write prescriptions (also without abbreviations) for (1) Fowler's solution, (2) a pint of a 1 to 4000 solution of Corrosive Sublimate, (3) Carron oil, (4) Benzoic acid, (5) Syrup of Rhubarb.
6. Acetanilidum. Action and uses. Mention three compound preparations in which Senna is one of the ingredients.

7. Salicylic acid. Absorption and elimination. Physiological action of small and large doses. Advantages of the sodium salt.

8. Action and uses of Belladonna. Action of Elaterin; of Aspidium.

9. Action of small and large doses of Squill. Uses of Calx Chlorata; of Acetate of Potassium; of Pilocarpus; of Sweet Spirits of Nitre; of Strophanthus.

10. Mention five preparations of Opium with doses. Precautions necessary in hypodermic administration of drugs. Constituents of Compound Rhubarb pills. Prescription for Cod-liver Oil.

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### CLINICAL CHEMISTRY.—Professor Wood.

- Under what conditions is the urine habitually pale in color, of low specific gravity, and below normal in quantity?
- What is the character of the urine and sediment in cases of severe irritation of the kidneys?
- Character of the urine and sediment in cases of renal cancer? Of tuberculosis of the kidney?
- Differential diagnosis between a case of acute nephritis passing through the fatty stage, and one of chronic parenchymatous nephritis complicated with an acute process?
- Discuss the following specimens giving reasons for the inferences which may be drawn from them.

#### CASE A.

Smoky. Acid. Sp. Gr. = 1009. Considerable sediment.

Uph. =—.	$\bar{U}$ . = 1.77%.	Cl. =—.	E. P. =—.
Ind. = n.	$\bar{U}$ . = +.	Sf. =—.	A. P. =—.

Alb. =  $\frac{1}{10}\%$ . Bile and sugar absent.

Sediment = numerous granular, brown-granular, epithelial, blood, and hyaline casts. An occasional oil globule and fatty renal cell on few of the casts. Numerous free blood globules and brown renal and pelvic cells. Little fibrine. Uric acid crystals.

Amount of urine	in 24 hours	= 1800 cc.
" " urea	" " "	= 31.86 grms.
" " chlorine	" " "	= 8.276 "
" " albumin	" " "	= 1.800 "

#### CASE B.

Color normal. Acid. Sp. Gr. = 1018 $\frac{1}{2}$ . Considerable sediment.

Uph. =—.	$\bar{U}$ . = 1.77%.	Cl. = n.	E. P. =—.
Ind. = n.	$\bar{U}$ . = +.	Sf. = n.	A. P. =—.

Alb. =  $\frac{1}{30}\%$ . Bile and sugar absent.

Sediment = considerable number of hyaline and finely-granular casts, many with oil globules adherent, and few with blood globules, granular and fatty renal cells and an occasional compound granule cell adherent.

Few free blood globules, granular and fatty renal cells, and rarely a compound granule cell.

Amount of urine	in 24 hours	$\left\{ \begin{array}{l} \text{Day} = 745 \\ \text{Night} = 940 \end{array} \right\}$	= 1685 cc.
" " urea	" " "	= 29.824 grms.	
" " chlorine	" " "	= 9.750 "	
" " albumin	" " "	= 0.556 "	

7. Describe in detail the method of obtaining and preparing the blood for the count of red corpuscles. Describe a round nuclear neutrophile.
8. Symptoms of chronic lead poisoning?

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### Third Year's Studies.

#### OBSTETRICS.—Professor W. L. RICHARDSON.

1. What is a placenta succenturiata? What would lead you to think that one had been left in the uterus at the end of a case of labor? If such was the case what would you do?
2. Why does the head enter in the oblique diameter of the superior strait of the pelvis when the transverse diameter is longer?
3. When would you expect to arrest an impending miscarriage at five months? When would you favor its completion?
4. A multipara, three months advanced in pregnancy, after a hard day's work, begins to flow freely and to have bearing-down pains. On your arrival, four hours later, you find her still flowing and having pains. You are unable to discover by questioning whether the ovum has been expelled or not. Discuss the treatment.
5. What is the normal mechanism of labor in a case of head presentation, the position being O. D. P. To what is a failure of this mechanism usually due? How would you remedy the difficulty?
6. Give the prodromic symptoms of puerperal eclampsia in the probable order of their occurrence. Treatment of these symptoms?
7. Causes, symptoms and treatment of internal concealed post-partum haemorrhage?
8. Care and treatment of a premature baby?
9. Treatment of a funis presentation?
10. Treatment of puerperal septicaemia?

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#### SURGERY.—Professor WARREN.

1. The differential diagnosis of pyemia and septicemia. Describe the pathological changes found in each disease.
2. The pathological changes found in osteomalacia, rickets and osteoporosis.
3. Describe the operation for the radical cure of inguinal hernia in the male.

4. The symptoms, diagnosis and treatment of fractures of the base of the skull.
5. Enumerate the benign tumors of the breast and state the period of life at which they occur.
6. Give the methods of administration, the advantages and disadvantages of the following anesthetics: Ether, chloroform, nitrous oxide.
7. Dislocations of the shoulder joint forward: their pathology. Explain the action of Kocher's method.
8. Intra capsular fracture of the neck of the femur: symptoms and prognosis.
9. Give the symptoms and differential diagnosis of acute intestinal obstruction.
10. The after treatment of a case of laparotomy.

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#### THEORY AND PRACTICE. — Professor FITZ.

1. Discriminate between a primary and a secondary exophthalmic goitre and explain the contradictory statements concerning the results of the surgical treatment of Graves's Disease.
2. State the significance to be attached to the diazo-reaction and to the serum-test in the diagnosis of typhoid fever.
3. Discriminate between neurasthenia and hysteria.
4. Differentiate between the symptoms and signs of hydropericardium and those of a hypertrophied and dilated heart.
5. The diagnosis and treatment of incipient pulmonary tuberculosis.
6. The differential diagnosis and the treatment of spasmodic and of organic stricture of the oesophagus.
7. The etiology, diagnosis and treatment of chronic dilatation of the stomach.
8. The indications and the contra-indications for the medical treatment of acute appendicitis.
9. The differential diagnosis of the several varieties of enlargement of the liver.
10. The etiology, prognosis and treatment of uraemia.

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#### GYNAECOLOGY. — Asst. Professor DAVENPORT.

1. Causes of pruritus vulvae.
2. An unmarried woman, eighteen years old, gives a history of back-ache in lower part of back for a year, made worse by standing or walking, and during the menstrual period. Menstruation regular, but more profuse and painful than formerly. Some leucorrhœa for six months. Increased frequency of micturition when on feet. Has never been examined, but has taken various drugs for her symptoms, with no effect. What would be your advice as regards an examination, and what method would you employ?

3. On examination the cervix is found pointing in the axis of the vagina, and a rounded firm body is felt in the posterior cul-de-sac. Owing to the rigidity of the abdominal muscles no satisfactory bimanual examination can be made. On examination with the speculum, an eroded os is seen with a plug of thick yellow tenacious mucus hanging from it. Give the differential diagnosis, and the methods you would employ to make it.

4. Give the causes of pelvic abscess, and the treatment.
5. Symptoms of prolapsed ovary.

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#### NEUROLOGY.—Professor PUTNAM.

1. Describe the modes in which the brain and spinal cord are supplied with blood and give the diseases of vascular origin to which the different parts of these organs are liable.

2. Give a full account of the different modes of examining the following reflexes, the changes which are liable to be met with in them, and their clinical significance: (a) knee-jerk; (b) wrist-jerk; (c) plantar; (d) pupillary.

3. Give a full account of the different modes of examining the sensibility of the skin, as regards, (a) contact; (b) temperature; (c) pain; and the distribution and nature of the changes likely to be met with in the following disorders: (a) pressure paralysis of the musculo-spiral nerve; (b) destruction of the spinal cord from fracture of the vertebrae; (c) sensory hemiplegia; (d) hysteria.

4. Give the more common toxic causes of disease of the nervous system, whether formed within the body or introduced from without, and indicate briefly the kinds of diseases to which they give rise. The different poisons may be arranged by groups, so far as convenient.

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#### MENTAL DISEASES.—Dr. FISHER.

1. What is a neuron?
2. What is autointoxication and how does it affect the neuron?
3. State the natural order of development in a typical case of ordinary insanity.
4. Give the causes, symptoms, prognosis, and treatment in any three forms of insanity you may select. Describe these forms at as great length as the time will allow.

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#### DISEASES OF CHILDREN.—Professor ROTCH.

1. Give the differential diagnosis, prognosis, and treatment of the following case:—

A boy, eight years old, has been ill for five or six days. The symptoms have been headache, langour, some elevation of temperature, and a tendency to drowsiness.

There are five other children in the family, one of whom has caries of the spine. A sister of the patient died at the age of three years of tubercular meningitis.

The boy has never been very strong, but, with the exception of a suppurating gland on the right side of the neck which was removed six months previously, there was no history of disease during the past three years. The physical examination was as follows:—

He was rather undeveloped. His face was flushed, his mind clear. There was no efflorescence on the body or extremities. There was a moderate enlargement of the cervical glands on both sides and a cicatrix on the right side of the neck below the ear. The examination of the lungs and heart showed nothing abnormal. The splenic dulness began at the ninth rib in the left axillary line, and the dulness of the liver began at the sixth rib in the right mammary line. The abdomen was not distended or tender. The abdominal muscles were tense and palpation of the abdomen was unsatisfactory. The temperature in the mouth was 104 F. The pulse was 120 and the respirations 30. The urine was acid, had a specific gravity of 1022, and contained no albumin.

During the succeeding week there was a marked increase in the severity of the disease. Stupor developed and the boy could only be roused when handled. At these times he was very irritable. The pupils were moderately dilated and reacted slowly to light. The tongue was dry and heavily coated, the lips were covered with bloody crusts, and there was some tremor of the hands. At times he was delirious. Nothing abnormal was found in the lungs at this time, but a soft systolic murmur was heard over the precordial area. The abdomen was not distended or tender. The abdominal muscles remained tense and palpation was unsatisfactory. The bowels were constipated. There was no efflorescence on the body. The temperature varied from 103.5 to 105 F., the pulse varied from 120 to 130, and the respirations from 30 to 35. Emaciation was noticeable. The urine was diminished in quantity and was passed involuntarily. It contained  $\frac{1}{8}$  of 1% of albumin, a few hyaline casts, and desquamated renal cells were found by the microscope.

2. Give the symptoms, prognosis, and treatment of the Acute Poliomyelitis Anterior of early life.
3. The symptoms, prognosis, and treatment of Cerebral Paralysis in early life.
4. The differential diagnosis of Lobar Pneumonia.
5. The symptoms and prognosis of Congenital Cardiac Disease, and its differential diagnosis from Acquired Cardiac Disease.
6. The etiology, symptoms, and prognosis of Rhachitis.

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#### DERMATOLOGY.—Professor WHITE.

1. Disorders of sweat glands.
2. Dermatitis venenata.
3. Clinical varieties of eczema.
4. Etiology of alopecia.
5. Lupus erythematosus.

**Fourth Year's Studies.****CLINICAL MEDICINE. — Professor SHATTUCK.**

[Discuss these cases in the order in which they are arranged. Assume that the symptoms not mentioned are wanting; but as omissions, intentional or not, may occur, state them if essential. The intelligent discussion of the case will have more weight than a hasty and inconclusive though correct diagnosis. Write out all prescriptions in full.]

**CASE 1.** — A lawyer, aet. 65, of fair physique and careful life, has always had good health. Tuesday, March 30, 1897, he goes to his office as usual, apparently perfectly well. About 11 A.M. he begins to suffer from pains in the thighs and buttocks, soon becoming intense. Vomiting occurs, and before 2 P.M. he returns home, takes some milk and rum, and promptly rejects it. About 6 P.M. his physician arrives, finding him still in severe pain, pulse 96, temp. 104.2; some frontal headache was also complained of, and fine tremor in the arms, especially the left, was present. Morphia, atropia and strychnia were given under the skin, and two grains of acetanclid were ordered hourly if pain required. The night was restless though without severe pain until 5 A.M., when he had a large loose stool. Four doses of acetanclid were taken, the last at 8 A.M. At 9 A.M. pulse 90, regular, of good strength; temp. 101.2.

Soon after this mental confusion was noted and he vomited again. About 11 A.M. he no longer knew his wife or son, and persisted in walking the floor though he was so weak as to require assistance. At 1.30 P.M.  $\frac{1}{4}$  grain morphia was given hypodermically. At 4 P.M. consultation. He lay on his left side in bed, unconscious, face flushed; resp. 32, stertorous; pulse 84, regular, rather weak; pupils equally contracted, axes parallel, directed forward; in a cool sweat; knee-jerks present; limbs on either side equally flaccid; occasional tremor of the right hand and arm. Visceral examination negative. Blood: white cells 51,000.

Urine drawn by catheter: smoky, acid, 1020. Albumin,  $\frac{1}{8}\%$ . Sediment; enormous numbers of casts of all sizes, the majority brown granular, but many fine and coarse granular, and numerous hyaline and epithelial casts with an occasional fat drop. A few yellow, highly refractile casts. Some abnormal blood, free and on casts. Much free renal epithelium.

Diagnosis? Prognosis? Treatment?

**CASE 2.** — A waiter, 38 years old, not of robust appearance, was taken with a sudden febrile attack accompanied by chilliness, anorexia, headache and malaise. There was also some soreness of the throat and coryza. After several days he was obliged to go to bed with a pain in his left side, moderate dyspnoea and cough. Expectoration scanty and viscid. Pulse 110; temp. 103; resp. 26. Physical examination gave fine râles at the end of inspiration in both lower backs, especially the left. Dullness, harsh breathing, and increased vocal resonance below the left scapula. Urine albuminous, high in color, sp. gr. 1026. The signs at the left base became more obscure after a week, when the pulse, respiration and temperature fell nearly to normal. The percussion note remained dull. At the end of another week the temperature had risen to 102.5, pulse 108, resp. 30; but the condition was fairly comfortable except for a dry cough, pain in the left side and occasional sweating. Ten days later the patient had a cachetic look, and the dull area with obscure respiration at the left base remained. At the angle of the scapula and in the lower

axillary region were high pitched moist râles and broncho-vesicular breathing.

At this time he began to raise a very foul-smelling, purulent material in considerable quantity, at intervals, with a strangling sensation. His color became dusky during the paroxysms of cough. After raising freely he got comparative relief for several hours. Coarse bubbling râles were abundant below the left scapula.

Diagnosis? Prognosis? Treatment?

**CASE 3.**—A single woman of 37 consults you at your office, coming ten miles from the country. The family and previous history are good; she has lived comfortably at home. About a year ago, without obvious cause, she began to suffer from distress after eating and gradually vomiting came on, usually soon after food, sour, followed by relief. No blood up or down as far as she knows. It is difficult now for her to retain any food; the stomach feels best when empty. She has lost much color and strength, moderately in weight. The catamenia were regular until three months ago, since then absent. Bowels regular; sleeps well. Has been under treatment most of the time, without avail.

Pulse 90, regular, rather feeble. Temp. 99.5. Pallor of the skin and mucous membranes is marked; slight oedema of the ankles. Loud, soft systolic murmurs are heard in the mitral and pulmonic areas, and there is, apparently, slight enlargement of the heart. Physical examination is otherwise negative, as is the urine.

What affections are suggested to you by the above statement? What further facts, if any, do you need for a positive diagnosis? Prognosis? Treatment?

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### CLINICAL SURGERY.—Professor C. B. PORTER.

#### CASE 1.

A lad, 16 years old, has the following history: Eleven years ago received an injury to his right knee, resulting in fracture of the patella, for which he was treated, and discharged wearing a Thomas splint and high sole on the other foot. This was worn for more than a year. For the six subsequent years he walked "all right." Then the right knee commenced to trouble him and in a few months he could not bear his weight on that leg. The knee enlarged slowly and flexion began. There was tenderness on pressure, but no pain. He used a cane for about a year and then a crutch. About six months ago an abscess slowly formed just above head of tibia on inner side. This was "lanced." Examination showed the right knee flexed to right angle. Marked subluxation: only 5° motion. Considerable atrophy of muscles. A sinus leads into joint on inner side.

What is the disease?

What is the best treatment?

Give reasons for treatment recommended.

What is the prognosis?

#### CASE 2.

A strong healthy man, aged 25. While driving in a race seated in a bicycle sulky struck his horse with the whip. The horse kicked him, first the hoof grazing along inner side of leg and thigh up to scrotum, the

second kick struck him on the pubes and knocked him over backwards on to the ground. He picked himself up, mounted his sulky and drove another heat. After that he attempted to urinate, but could not do so, but passed a few drops of blood. A physician called in later passed a catheter and drew off bloody urine. By evening the scrotum began to swell and turn dark in color. The following morning the penis was also swollen, and there was bleeding from the meatus. The scrotum was large and tense an ecchymosis in the perineum extending laterally to the rami of pubes and ischium, and upwards to the pubic region on abdomen.

What is the nature of the trouble?

What is the treatment?

Give the reasons for the treatment you recommend.

Give the anatomical reasons for the limitations of the ecchymosis.

What is the prognosis?

#### CASE 3.

The patient is a fine healthy boy of five years. The only point of interest in his previous history is, that at the age of six months he had whooping cough, at which time his mother states a tumor appeared in the right inguinal region. She is very indefinite as to its size, but thinks that at times it reached into the scrotum. It would often appear and disappear, but was noticed by her particularly on cold days. For a long time the tumor gave no trouble, but six weeks ago after playing for some time the boy came into the house crying with pain in the right groin; half an hour later he began to vomit, later the mother discovered a tumor in the right inguinal region, which she says filled the scrotum. A physician was called who, because of the tenderness and pain, gave ether and the tumor was easily reduced. After recovery from ether the pain and vomiting had ceased. Four weeks later the tumor again appeared with similar symptoms, but more mild. The tumor, however, seemed larger than before. It was again easily reduced under ether. This time it was noticed there was no testicle in the right half of the scrotum. It was not known whether there was one present at the time of the first reduction or not.

What conditions has the surgeon to deal with in this case?

What treatment would you recommend?

Give your reasons for treatment recommended.

What is the prognosis?

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#### OTOLOGY.—Professors BLAKE and GREEN.

1. Give the relationship between the tympanum and the jugular fossa.
2. Describe the course of the chorda tympani nerve—its function.
3. What muscles are attached to the walls of the Eustachian tube and where?
4. What is the effect produced by the contraction of the stapedius muscle?
5. Describe some of the common complications of suppuration of the mastoid.
6. How would you distinguish between acute secretory catarrh and acute suppuration, in a patient with measles?

7. A child two and one half years of age, in previously good health, has had a head cold for the past two days. For twenty-four hours it has been very restless, but apparently not in active pain. Two hours before the examination of the ears the child had a mild convulsion. The general condition is good, the mind clear, and the temperature is 103.5 F. Both drum heads are somewhat reddened, lustreless and bulging in the posterior segment. There is no tenderness about the ear. Give the etiology, diagnosis, prognosis and treatment, both immediate and subsequent.

8. A child ten years of age, in the second week of scarlet fever has had, after twenty-four hours of severe pain, a sero-sanguinolent discharge which is found to contain staphylococcus aurens and albus. The drum head is found to be swollen, red and perforated in the anterior inferior segment; there is no mastoid tenderness. The child is very deaf in the affected ear, hearing the watch on contact, but the tuning fork by bone conduction on the median line is heard better in that ear. What is the probable course of the disease, and what the prognosis as to hearing? Give the treatment in detail both immediate and subsequent.

~~88~~ Students electing Otology and taking the two hours examination will answer all the above questions, other students taking the one hour examination will be required to answer the first five questions only.

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#### LARYNGOLOGY.—Dr. A. COOLIDGE, Jr.

1. The appearances, prognosis and treatment of atrophic rhinitis.
2. The etiology and symptoms of hay fever.
3. The symptoms and treatment of enlarged tonsils.
4. Describe retropharyngeal abscess.
5. Describe the muscles which close the glottis.
6. The appearances in paralysis of one recurrent laryngeal nerve.

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#### ORTHOPEDIC SURGERY, REQUIRED.—Asst. Professor BRADFORD.

1. Describe Club Foot.
2. Describe Flat Foot.
3. How is Flat Foot treated?
4. Diagnosis of Hip Disease.
5. When should excision, and when conservative treatment of Hip Disease be employed?
6. What is Caries of the Spine?
7. What are the principles of treatment?
8. What is the prognosis?
9. What is Torticollis?
10. What is the treatment of Torticollis?

## ORTHOPEDIC SURGERY, ELECTIVE.—Asst. Professor BRADFORD.

1. Describe the pathological changes in tubercular disease of the hip, knee, and ankle, mentioning both the microscopic and the growth appearances.
2. Describe the pathological changes in lateral curvature.
3. Mention the methods of treatment in lateral curvature.
4. Mention the rules for measurement of a traction splint in hip disease.
5. When should a convalescent splint be used in hip disease?
6. When is recumbency necessary in hip disease?
7. Describe the pathological anatomy of club-foot.
8. Mention the methods of treatment in club-foot.
9. Describe the apparatus used as a retention shoe in club-foot.
10. Describe the operation of osteoplasia in bow-leg.

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## LEGAL MEDICINE.—Professor DRAPER.

1. Give your estimate of the efficacy of drugs in the induction of abortion.
2. What is adipocere and what conditions favor its formation?
3. What are the signs of rape upon a young woman, previously a virgin and in good health?
4. Define the differences between ordinary and expert testimony.
5. Give the signs of mature foetal development in a new-born child.
6. Describe the condition of the blood after death by drowning and give an explanation of the abnormalities observed.

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## SYPHILIS.—Dr. POST.

1. What would lead you to consider a sore upon the lips as primary syphilis?
2. What are the peculiarities of syphilitic alopecia?
3. If you desired to treat a patient by inunction. What directions would you give him?
4. A man comes to you with an eruption which is evidently syphilitic and tells you the following story:—

He was married just eight weeks ago. Two weeks before marriage he had a suspicious intercourse. One week after marriage he left his wife for a business trip, and has not seen her since. Nine days after marriage he first saw the sore which still exists, and which was followed after six weeks by the eruption which he still exhibits. He wants to know whether he caught his disease from his wife, and if not whether he has probably given it to her.

What answer should you give him and why?

## OPHTHALMOLOGY. — Professor WADSWORTH.

[Those not taking Ophthalmology as an elective answer the first five questions.]

1. Describe the mechanism of accommodation.
2. Symptoms and treatment of catarrhal conjunctivitis.
3. Symptoms and treatment of phlyctenular keratitis.
4. Diagnosis and treatment of iritis.
5. What are the essential differences between myopia and hypermetropia?
6. What ocular affections may be caused by diphtheria?
7. What ocular affections may occur in locomotor ataxia?
8. Describe the ophthalmoscopic appearance of atrophy of the optic nerve.
9. What alterations in the fundus may appear in high myopia, and what lesion fatal to vision not infrequently occurs in such cases?

## GYNAECOLOGY. — Asst. Professor C. M. GREEN.

1. Pedunculated fibro-myomatous tumors of the uterus. Symptoms? Diagnosis? Treatment?
2. What are the indications for performing amputation of the infravaginal cervix? Describe concisely the operation.
3. Acute congenital anteflexion of the corpus and cervix uteri, with dysmenorrhoea. Surgical treatment?
4. An unmarried woman of twenty-five, previously well, had a criminal abortion four months ago; she is said to have been confined to her bed for four weeks, with fever, pain, and general prostration. During the last three months she has been able to work but little, and has had several attacks of fever, and pain in the left iliac region, requiring her to remain in bed for four or five days at a time. Examination reveals a tender, irregular, adherent mass to the left of and behind the uterus, of the size of a large hen's egg; the uterus is but slightly movable. Discuss the diagnosis and treatment.
5. A feeble woman of seventy has had for many years a prolapse of the anterior vaginal wall and bladder; of late, the mass has protruded from the vulva, and has become excoriated and tender; there is also some prolapse of the senile uterus, a moderate vaginitis, and distressing bladder symptoms. The patient's general condition forbids surgical treatment. Describe in detail your management of the case.

## OPERATIVE OBSTETRICS. — Asst. Professor C. M. GREEN.

1. A multipara has been in active second stage labor for three hours. The membranes have ruptured. The face presents, M.D.P., and the head is well within the pelvic cavity. The foetus is alive. Immediate delivery is indicated in the interest of the mother. Treatment?

2. A patient has been in labor two days. It is a head presentation, position O.D.P. The head is movable above the superior strait, the cervix dilated to about the size of a dollar, the pelvis slightly contracted in every diameter, conjugate four inches. How would you deliver?

3. Give directions in detail for catheterizing a patient before and after delivery.

4. Give the different methods which may be used for the inducing of labor, with the reasons which would guide your choice in any given case.

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OPERATIVE SURGERY.—Professor C. B. PORTER.

1. What are the rules for ligature of the ulnar artery high?
2. The brachial artery at bend of elbow?
3. The common carotid at point of election?
4. The femoral at Hunter's canal?
5. The anterior tibial high?
6. The rules for supra-pubic cystotomy?
7. The rules for excision of the breast?
8. The rules for amputation of the penis?
9. The rules for opening a palmar abscess?

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NEUROLOGY.—Dr. WALTON.

[One question may be omitted.]

1. The knee jerk as an aid in diagnosis.
2. The significance of hemianopsia.
3. Indicate cortical areas for movements of shoulder, of fingers and thumb; auditory centre.
4. Diagnosis between locomotor-ataxia and multiple neuritis.
5. Indicate in a general way the locations of anaesthesia resulting from spinal lesion in lumbar and sacral regions.
6. Brachial plexus paralysis, common causes, main characteristics, and from what lesions to be diagnosticated.

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DERMATOLOGY.—Professor WHITE.

1. Erysipelas and acute eczema: differential diagnosis.
2. Tinea Tricophytina.
3. Infantile eczema.
4. Cutaneous tuberculosis.
5. Alopecia areata.

## BACTERIOLOGY. — Professor ERNST.

1. Given a specimen of pus for Bacteriological Examination, describe the steps by which this may be accomplished.
2. Widol's Reaction in Typhoid.
3. Bacillus of Tuberculosis.

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## CHEMISTRY.

1. Describe a megaloblast. What does the presence of this cell in the blood signify?
2. Describe the staining reactions of the different constituent elements of the normal white corpuscles and deduce from this the theory of the Ehrlich stain.
3. How can leucocytosis be differentiated from myelogenous leukaemia?
4. How does the differential count in the physiological leucocythaemias, as in pregnancy, differ from the normal differential count?
5. What is the differential feature of the blood in chlorosis?

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## CLINICAL MICROSCOPY. — Dr. WHITNEY.

1. The differential diagnosis between the fluid of an ovarian cyst, a pancreatic cyst, and a serous effusion.
2. Method of staining for tubercle bacilli in the sputa.
3. The differential diagnosis between fragments from a hyperplastic endometritis, cancer and malignant adenoma of the uterus.
4. The diagnosis and description of a specimen.

## ADMISSION EXAMINATIONS.

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### LATIN.

[Translate either of the following selections].

1. “Ea res est Helvetiis per indicium enuntiata. Moribus suis Orgetorix ex vinculis causam dicere coegerunt: damnatum poenam sequi oportebat ut igni cremaretur. Die constituta causae dictionis Orgetorix ad judicium omnem suam familiam ad hominum milia decem undique coegerit, et omnes clientes obaeratosque suos, quorum magnum numerum habebat, eodem conduxit: per eos ne causam diceret se eripuit. Cum civitas ob eam rem incitata armis jus suum exequi conaretur, multitudo inemque hominum ex agris magistratus cogerent, Orgetorix mortuus est; neque abest suspicio, ut Helvetii arbitrantur, quin ipse sibi mortem consicerit.

Post ejus mortem nihilo minus Helvetii id quod constituerant facere conantur, ut e finibus suis exeant. Ubi jam se ad eam rem paratos esse arbitrati sunt, oppida sua omnia numero ad duodecim, vicos ad quadrinquentos, reliqua privata aedificia incendunt, frumentum omne, praeter (quam) quod secum portaturi erant, comburunt, ut, domum redditionis spe sublata, paratores ad omnia pericula subeunda essent; trium mensium molita cibaria sibi quemque domo efferre jubent.”

2. “Romulus imaginem urbis magis quam urbem fecerat; deerant nicipiae. Erat in proximo lucus; hunc asylum fecit. Eo statim multitudo latronum pastorumque confugit. Quum vero ipse et cives sui uxores non haberent, legatos circa vicinas gentes misit, qui societatem connubiumque novo populo peterant. Nusquam benigne legatio audita est; ludibrium etiam additum: “Quidni feminis quoque asylum aperuistis? Id enim compar foret connubium.” Romnlus aegritudinem animi dissimulans ludos parat; indici deinde finitimus spectaculum jubet. Multi convenere studio etiam videtiae novae urbis, maxime Sabini cum liberis et conjugibus. Ubi spectaculi tempus venit, deditaequae ei mentes cum oculis erant, tum, dato signo, juvenes Romani virgines rapiunt.

Sabini ob virgines raptas bellum adversus Romanos sumpserunt. Qui quum Roniae appropinquarent, Tarpeiam virginem nacti sunt, quae aquam forte extra moenia petitum ierat. Hujus pater Romanae praerat arcu. Titus Tatius, Sabinorum dux, Tarpeiae optionem muneris dedit, si exercitum suum Capitolium perduxisset. Ea petiit quod Sabini in sinistris manibus gererent, videlicet annulos et armillas. Quibus dolose, Tarpeia Sabinos in arcem perduxit. Ibi Tatius eam scutis obrui jussit; nam et scuta in laevis habuerant. Sic impia proditio celeri poena vindicata est.”

## ENGLISH.

[Correct the following sentences.]

- I. A convent, a lunatic asylum, or a husband — either will do.
- II. She was so intent on the sport that she allowed the sun to severely blister her hands.
- III. No pupil ever graduated from this school who was more earnest, thorough, and painstaking in their work.

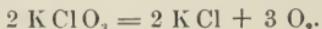
Give a synopsis of the story of Evangeline.

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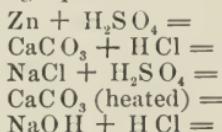
## CHEMISTRY.

[Laboratory note-books (qualitative analysis), properly endorsed, must be handed in at this examination.]

1. How long have you studied chemistry? Where? What courses have you taken? What books have you used?
2. Define the terms atomic weight and molecular weight.
3. Define allotropism. Mention some elements capable of existing in allotropic modifications.
4. What is the significance of the terminations *ous* and *ic*, *ite* and *ate*, as applied to acids and salts respectively?
5. Define normal, acid, and double salts.
6. How much oxygen can be obtained from 100 grams potassic chlorate?



7. Complete the following equations: —



8. Physical and chemical properties of chlorine?
9. What is the most important soluble salt of silver? Properties and uses?

$$\text{K} = 39, \quad \text{Cl} = 35.5, \quad \text{O} = 16.$$


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## PHYSICS.

1. What is the temperature of a body?
2. What is an erg?
3. What is a *parabolic* curve — a *ballistic* curve?
4. What is heat?
5. When the temperature of a room falls 30 Farenheit degrees, how many Centigrade degrees is the temperature lowered?
6. What is a Voltaic battery?
7. Upon what does the quality of a sound depend?
8. What is the *umbra* and what the *penumbra* of a shadow?

## FRENCH.

I. TRANSLATION:— Un des noms les plus nobles de la vieille France, celui des Odon des Pierrepont, etait portait, et bien porté, vers 1875 par le marquis Pierre-Armand, dernier descendant mâle de sa famille, qui etait alors âgé d'une trentaine d'années. C'était un homme dont les traits charmants et serieux, la grâce virile, l'élégance correct et tranquille, evoquaient naturellement cette formule banale; il a l'air d'un prince.— Il était difficile, en effet, de se le figurer assis dans un bureau, mesurant de la soie dans un magasin ou exerçant un métier quelconque, si ce n'est celui de diplomate on de soldat, qui sont deux metiers de prince. On avait vu, du reste, le marquise de Pierrepont, sous l'uniforme pendant la guerre de 1870. Il y avait fait preuve du plus brillant courage: puis il etait rentré paisiblement dans sa vie de Parisien et de dilettante, un peu par goût et par défaut d'ambition, un peu aussi par complaisance pour une tante qu'il avait et qui n'aimait pas la république.

II. Give the person, tense and mood with the principal parts of the following:

1. il etait porté. 2. On avait vu. 3. Il avait fait. 4. qui aimait.

III. Write a short description in French of some familiar object or place.

## GERMAN.

## TRANSLATE INTO ENGLISH:—

1. Dieser Unbekannte starb im Jahre 1703 und wurde bei Nacht im Kirchhof der Pauls-Pfarrei<sup>1</sup> begraben. Was das Erstaunen verdoppelte, ist, daß zu der Zeit, als man ihn nach der St. Margarethen-Insel schickte, kein angesehener<sup>2</sup> Mann in Europa verschwand. Und doch war dieser Gefangene ohne Zweifel ein solcher; denn Folgendes hatte sich in der ersten Zeit, als er auf der Insel war, zugetragen<sup>3</sup>: Der Oberaufseher stellte selbst die Schüsseln auf den Tisch, und nachdem er ihn eingeschlossen hatte, ging er weg. Einst schrieb der Gefangene etwas auf einen silbernen Teller und warf den Teller zum Fenster hinaus, gegen ein Schiff, welches am Ufer lag, fast am Fuße des Thurmes. Der Fischer, dem dieses Schiff gehörte, fand den Teller, hob ihn auf und brachte ihn dem Oberaufseher zurück. Erstaunt fragte dieser den Fischer: „Haben Sie gelesen, was auf diesem Teller geschrieben steht, und hat jemand ihn in Ihren Händen gesehen?“ Dieser Mann wurde festgehalten<sup>4</sup> bis der Aufseher sich wohl versichert hatte, daß er nicht lesen konnte, und daß der Teller von Niemand gesehen worden war. „Gehen Sie,“ sagte er, „Sie sind sehr glücklich daß Sie nicht lesen können.“

Herr von Chamillart war der letzte Minister, welcher dieses sonderbare<sup>5</sup> Geheimniß wußte. Der Marschall La Feuillade, sein Schwiegerjohn, bat ihn bei seinem Tode auf den Knieen, ihm anzugezeigen, wer der Mann wäre, den man nie anders kannte, als unter dem Namen: „Der Mann mit der eisernen Maske.“ Chamillart antwortete ihm, daß es ein Staatsgeheimniß sei, und daß er einen Eid geleistet<sup>6</sup> habe, es nie zu entdecken.

<sup>1</sup> parish.      <sup>2</sup> distinguished.      <sup>3</sup> happened.      <sup>4</sup> arrested.

<sup>5</sup> strange.      <sup>6</sup> taken an oath.

2. Ein verhungert Hühnchen sand  
Einen feinen Diamant  
Und verscharrt ihn in den Sand.  
"Möchte doch, mich zu erfreu'n,"  
Sprach es, "dieser schöne Stein  
Nur ein Waizenkörnchen sein."

3. Du Bächlein, silberhell und klar  
Du eilst vorüber immerdar.  
Am Ufer steh' ich, summ' und summ'  
Wo kommst du her? Wo gehst du hin?

## ALGEBRA.

1. A tree 60 feet high was broken at such a point that the part broken off was three times the length of the part left standing. Require the length of each part.

2. Find the sum of  $8a^2x^2 - 3ax$ ,  $7ax - 5xy$ ,  $-5ax + 9xy - b^2c^3$ , and  $2a^2x^2 + xy$ .

3. Find the sum of  $7y - 4(a + b)$ ,  $6y + 2(a + b)$ ,  $2y + (a + b)$ , and  $y - 3(a + b)$ .

4. Find the sum of  $ax^2 + bx$ , and  $cx^2 - dx$ .

5. From  $5xy$  take  $3xy - 3$ .

6. Multiply  $-a(a + y)^3$  by  $2a(a + y)^2$ .

7. Multiply  $x + y$  by  $x + y$ .

8. Multiply  $(x^2 - xy + y^2)$  by  $x + y$ .

9. Divide  $15a - 2b^3x - 10abx - 5ab^2x$  by  $5ab^2x$ .

10. If 4 be added to the numerator of a certain fraction its value will be  $\frac{1}{2}$  and if 7 be added to its denominator its value will be  $\frac{1}{5}$ . What is the fraction?

## GEOMETRY.

I. If two angles of a triangle be equal, the sides opposite the equal angles are equal, and the triangle is isosceles.

II. The sum of the interior angles of a polygon is equal to two right angles, taken as many times less two as the figure has sides.

III. In the same circle or equal circles, equal angles at the centre intercept equal arcs on the circumference.

IV. If a straight line divide two sides of a triangle proportionately, it is parallel to the third side.

V. The area of a trapezoid is equal to one half of the sum of the parallel sides multiplied by the altitude.

## BOTANY.

1. Explain the morphology of tendrils and spines.
2. Describe the structure and function of a green leaf-cell.
3. What is meant by alternation of generations? Give some familiar example.
4. Explain the structure, growth, and function of an endogenous stem.
5. What are the principal differences between algae and fungi?
6. Make a sketch of a thrice pinnate leaf.
7. How does a tuber differ from a bulb?
8. Describe the fertilization of any flower and the changes which follow.

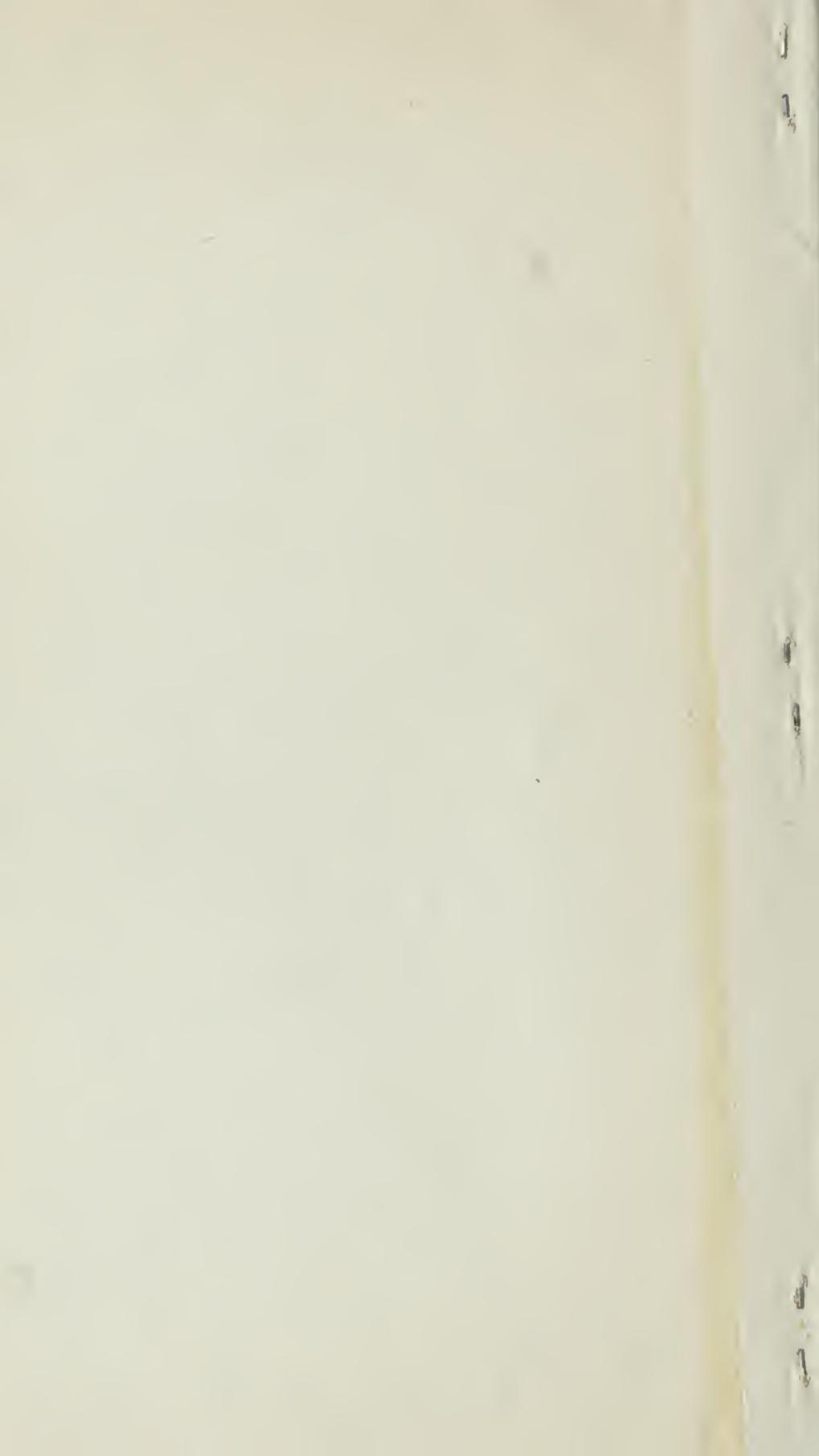


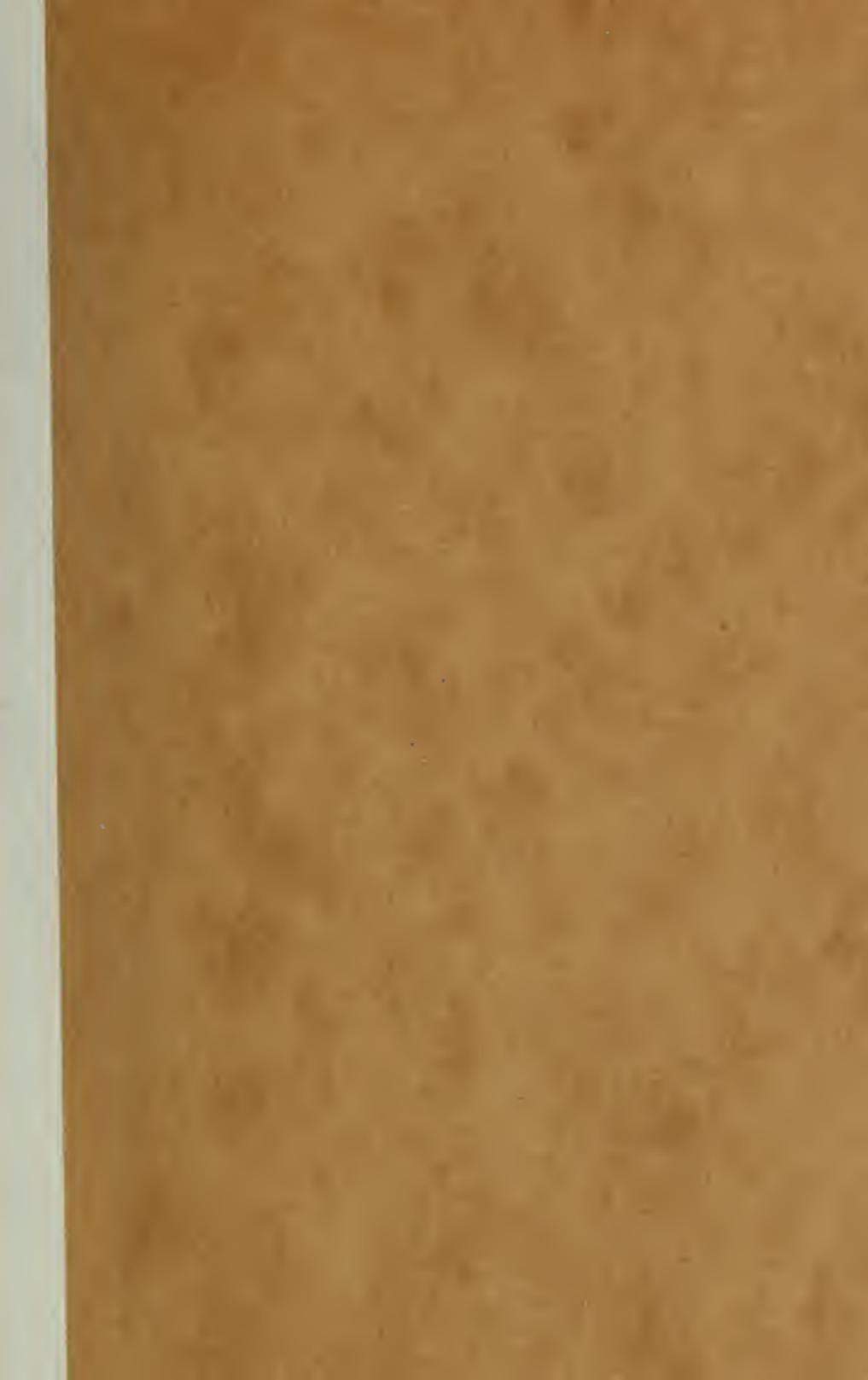












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